### NOTICE

THIS DOCUMENT HAS BEEN REPRODUCED FROM MICROFICHE. ALTHOUGH IT IS RECOGNIZED THAT CERTAIN PORTIONS ARE ILLEGIBLE, IT IS BEING RELEASED IN THE INTEREST OF MAKING AVAILABLE AS MUCH INFORMATION AS POSSIBLE

"Made available under this sponsorship in the interest of the wide dissemination of Earth Resources Survey Program information and without liability for any use made thereof."

# E82-10349

# MULTISPECTRAL DETERMINATION OF SOIL MOISTURE

Principal Investigator: John E. Estes

Co-Principal Investigator: David S. Simonett

Authors:

Earl J. Hajic
B. Mark Hilton
Robert Duncan Lees



Annual Technical Report

April, 1982

NASA Grant NCC-5-5

This work performed in association with Dr. Bruce Blanchard, Texas A & M University, Remote Sensing Center

College Station, Texas 77843

(E82-10349) MULTISPECTRAL DETERMINATION OF SOIL MOISTURE-2 Annual Technical Report (California Univ.) 252 p HC A12/MF A01 CSCL 08M N82-26747

Unclas G3/43 00349

GEOGRAPHY REMOTE SENSING UNIT UNIVERSITY OF CALIFORNIA SANTA BARBARA, CALIFORNIA 93106

GEOGRAPHY REMOTE SENSING UNIT

GRSU)

UNIVERSITY OF CALIFORNIA, SANTA BARBARA 93104

#### MULTISPECTRAL DETERMINATION OF SOIL MOISTURE-II

Principal Investigator
John E. Estes

Co-Principal Investigator
David S. Simonett

Authors

Earl J. Hajic B. Mark Hilton Robert Duncan Lees

REVISED TEST SUPPLEMENT

JUNE, 1982

April 1982 .

Annual Report
NASA Grant NCC-5-5

This work performed in association with Dr. Bruce Blanchard, Texas A&M University, Remote Sensing Center, College Station, Texas 77843

Geography Remote Sensing Unit University of California Santa Barbara, California 93106

#### ACKNOWLEDGEMENTS

We are indebted to Dr. Bruce J. Blanchard, NASA-Goddard for his help. He very generously shared the edited data sets then separately under evaluation by Dr. Sid Theis and Dr. Wes Rosenthal at Texas A & M University, Remote Sensing Center (TAMU). Dr. Al Chang, NASA-Goddard and Ms. Peggy O'Neal, NASA-Goddard provided both technical advice and emotional support via their noteworthy interest. Ms. Cheryl Jones and Dr. Richard Newton, TAMU, provided insight into the data set collection characteristics. Mr. Tim Minor (GRSU-UCSB) effected continuation of project management upon the completion of Mr. Rob Lees' thesis.

# ORIGINAL PAGE IS OF POOR QUALITY

### TABLE OF CONTENTS

| •                                            | Acknowledgement                                |                    |
|----------------------------------------------|------------------------------------------------|--------------------|
| 1.                                           | Introduction                                   | 1                  |
| 2<br>2.1<br>2.1.1<br>2.1.2<br>2.1.3<br>2.1.4 | Overview                                       | 7<br>8<br>22<br>45 |
| 3.<br>3.1<br>3.2<br>3.3                      | Bare Fields - Guymon                           | 143                |
| 4.<br>4.1<br>4.2<br>4.3                      | Milo Viewed Perpendicular Fields - Guymon ···· | 148                |
| 5.<br>5.1<br>5.2<br>5.3                      | Milo Viewed Parallel Fields - Guymon           | 153                |
| 6.<br>6.1<br>6.2<br>6.3                      | Alfalfa Fields - Guymon                        | 158                |
| 7.<br>7.1<br>7.2<br>7.3                      | Bare Combined Fields - Dalhart                 | 165                |
| 8.<br>8.1<br>8.2<br>8.3                      | Stubble Combined Fields - Dalhart              | 170                |
| 9.<br>9.1<br>9.2<br>9.3                      | Disked Stubble Fields - Dalhart                | 175                |
| 10.<br>10.1<br>10.2<br>10.3                  | Corn Fields - Dalhart                          | 180                |

| 11. | Eigenvector a | and Factor | Analyses | • • • • • • • • • • • • • • • • • • • • | 187 |
|-----|---------------|------------|----------|-----------------------------------------|-----|
| 12. | Conclusions   | ******     |          | •                                       | 237 |
| 13. | Bibliography  |            |          |                                         | 238 |

.

1000

-

T. CALCALIA

\*\*\*\*\*\*

# LIST OF TABLES

| 1A.<br>1B.        | Data Source: Field and Date - Guymon                                                                                            | 3                 |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------|-------------------|
| 2A.<br>2B.        | Soil Moisture and Sensor Channel Variables - Guymon<br>Soil Moisture and Sensor Channel Variables - Dalhart                     | 5<br>6            |
| 3.                | Texture - Guymon                                                                                                                | 20                |
| 4.                | Texture - Dalhart                                                                                                               | 21                |
| 5.<br>6.<br>7.    | Elementary Statistics for Guymon Bare                                                                                           | 143<br>146<br>147 |
| 8.<br>9.<br>10.   | Elementary Statistics for Guymon Milo Perp                                                                                      | 148<br>151<br>152 |
| 11.<br>12.<br>13. | Elementary Statistics for Guymon Milo Par                                                                                       | 153<br>156<br>157 |
| 14.<br>15.<br>16. | Elementary Statistics for Guymon Alfalfa                                                                                        | 158<br>161<br>162 |
| 17.<br>18.        | Correlation Coefficients for SM vs. SM - Milo Par., Bare<br>Correlation Coefficients for SM vs. SM - Milo Perp., Alfalfa        | 163<br>164        |
| 19.<br>20.<br>21. | Elementary Statistics for Dalhart Bare Combo                                                                                    | 168<br>168<br>169 |
| 22.<br>23.<br>24. | Elementary Statistics for Dalhart Stubble                                                                                       | 170<br>173<br>174 |
| 25.<br>26.<br>27. | Elementary Statistics for Dalhart Disked Stubble                                                                                | 175<br>178<br>179 |
| 28.<br>29.<br>30. | Elementary Statistics for Dalhart Corn                                                                                          | 180<br>183<br>184 |
| 31.<br>32.        | Correlation Coefficients for FLD vs. FLD - Bare Combo Stubble<br>Correlation Coefficients for FLD vs. FLD - Disked Stubble Corn | 185<br>186        |

# LIST OF TABLES (continued)

| Table 3 | 33        | Eigenvector and factor analysis - trial runs overview $\cdot \cdot \cdot \cdot$ | 189 |
|---------|-----------|---------------------------------------------------------------------------------|-----|
| Table 3 | 34        | Eigenvector and factor analysis - initial runs overview $\dots$                 | 189 |
| Table 3 | 35        | Guymon-Bare (Factor BX)                                                         |     |
|         | a.        | Rotated factors and transformation matrix $\cdots \cdots$                       |     |
|         | b.        | Initial factor pattern                                                          |     |
|         | С,        | Eigenvectors                                                                    | 198 |
| Table 3 | 36        | Guymon-Milo, Perp (Factor RX)                                                   |     |
|         | a.        | Rotated factors and transformation matrix $\dots$                               | 201 |
|         | b.        | Initial factor pattern                                                          |     |
|         | c.        | Eigenvectors                                                                    | 203 |
| Table 3 | 37        | Guymon-Milo, Par (Factor LX)                                                    |     |
|         | a.        | Rotated fastors and transformation matrix                                       | 206 |
|         | b.        | Initial factor pattern                                                          | 207 |
|         | <b>c.</b> | Eigenvectors                                                                    | 208 |
| Table : | 38        | Guymon-Alfalfa (Factor AX)                                                      |     |
|         | a.        | Rotated factors and transformation matrix                                       | 211 |
|         | b.        | Initial factor pattern                                                          | 212 |
|         | c.        | Eigenvectors                                                                    | 213 |
| Table : | 39        | Dalhart - Combined Bare (Factor ZX)                                             |     |
|         | a.        | Rotated factors and transformation matrix                                       | 216 |
|         | b.        | Initial factor pattern                                                          | 218 |
|         | C.        | Eigenvectors                                                                    | 219 |
| Table 4 | 40        | Dalhart - Stubble (Factor SX)                                                   |     |
|         | a.        | Rotated factors and transformation matrix                                       | 223 |
|         | b.        | Initial factor pattern                                                          | 225 |
|         | С.        | Eigenvectors                                                                    | 227 |
| Table   | 41        | Dalhart - Corn (Factor CX)                                                      |     |
|         | a.        | Rotated factors and transformation matrix                                       | 231 |
|         | b.        | Initial factor pattern                                                          | 233 |
|         | c.        | Eigenvectors                                                                    | 235 |

# LIST OF FIGURES

| •  | Mean Soil Moisture Profiles - Guymon                                                                                                                                                             | 9  |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
|    | Mean Soil Moisture Profiles - Dalhart                                                                                                                                                            | 10 |
| 3. | Comparison of Average Scattering Cross Section vs. Look Angle - Guymon A. Bare                                                                                                                   |    |
| ŀ. | Comparison of Average Scattering Cross Section vs. Look Angle - Dalhart A. Bare Combo                                                                                                            |    |
| 5. | Scatterometers:       Effect of Look Angle on Correlation with SOILO2 - Guymon         A. Bare       23         B. Milo Perp.       24         C. Milo Par.       25         D. Alfalfa       26 |    |
| j. | Passive Microwave: Effects of Cover on Correlation with SOILO2 - Guymon                                                                                                                          | 27 |
| 7. | M.M.S.: Effects of Channel on Correlation with SOILO2 - Guymon                                                                                                                                   | 28 |
| 3. | Scatterometers: Effect of Look Angle on Correlation with FLD02 - Dalhart A. Bare Combo                                                                                                           |    |
| 9. | Passive Microwave: Effect of Cover on Correlation of FLD02 - Dalhart                                                                                                                             | 33 |
| 0. | Thematic Mapper Simulator: Effect of Channel on Correlation with FLD02 - Dalhart                                                                                                                 | 34 |
| 1. | Correlation of Scatterometers vs. Depth of Sample of Volumetric Soil Moisture - Guymon  A. Bare - Angles 5, 10, 15, 20                                                                           |    |
| 2  | Composition of Descript Microphys us Donth of Sample - Guymon                                                                                                                                    | 30 |

| 13. | Correlation of Scatterometers vs. Depth of Sample - Dalhart  A. Bare Combo - Angles 5, 10, 15, 20                                                                                                                              |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 14. | Correlation of Passive Microwave vs. Depth of Sample - Dalhart 4                                                                                                                                                               |
| 15. | Single Variable Regressions: A Comparison of Effects of Cover Type for Prediction of SOILO2 - Guyman  A. VV13.3L5, VV13.3L10                                                                                                   |
| 16. | Single Variable Regressions: A Comparison of Effects of Cover Type for Prediction of FLD02 - Dalhart  A. VV13.3L5, L10                                                                                                         |
| 17. | Single Variable Regressions:       Standard Error of Estimate - Guymon         A. Bare       75         B. Milo Perp.       76         C. Milo Par.       77         D. Alfalfa       78         E. Passive Microwave       79 |
| 18. | Single Variable Regressions: Standard Error of Estimate - Dalhart  A. Bare Combo 80 B. Stubble 81 C. Disked Stubble 82 D. Corn 83 F. Passive Microwave 84                                                                      |

| 19.  | Single Variable Regressions Constants Showing Effects of Cover and Look Angle - Guymon A. VV13.3, HH1.6           |
|------|-------------------------------------------------------------------------------------------------------------------|
| 20.  | Single Variable Regression Constants Showing Effects of Cover and Look Angle - Dalhart       89         A. VV13.3 |
| 21,, | Required <b>6</b> DB to Predict SOILO2 = 0% - Guymon A. VV13.3                                                    |
| 22.  | Required © DB to Predict SOILO2 = 5% - Guymon A. VV13.3                                                           |
| 23.  | Required <b>6</b> DB to Predict SOILO2 = 15% - Guymon A. VV13.3                                                   |
| 24.  | Required T <sub>B</sub> <sup>O</sup> K to Predict SOILO2 - Guymon 112                                             |
| 25.  | Required DB to Predict FLD02 = 0% - Dalhart A. VV13.3                                                             |

| 26. | Required ODB to Predict FLD02 = 5% - Dalhart  A. VV13.3  |    |
|-----|----------------------------------------------------------|----|
| 27. | Required DB to Predict FLD02 = 15% - Dalhare  A. VV.13.3 |    |
| 28. | Required TBOK to Predict FLD02 - Dalhart                 | 34 |
| 29. | Stepwise Regressions - Guymon A. Bare                    |    |
| 30. | Stepwise Regressions - Dalhart A. Bare Combo             |    |
| 31  | Guymon-Bare (Factor BX): Variable Trajectories           |    |
| a.  | Factors 1 and 2 193                                      |    |
| b.  | Factors 3 and 4 195                                      |    |
| 32  | Guymon-Milo, Perp (Factor RX): Variable Trajectories     |    |
| a.  | Factors 1 and 2 199                                      |    |
| b.  | Factors 3 and 4 200                                      |    |
| 33  | Guymon-Milo, Par (Factor LX): Variable Trajectories      |    |
| a.  | Factors 1 and 2 204                                      |    |
| b.  | Factors 3 and 4 205                                      |    |
| 34  | Guymon-Alfalfa (Factor AX): Variable Trajectories        |    |
| a.  | Factors 1 and 3 209                                      |    |
| b.  | Factors 2 and 4 210                                      |    |

| 35 | Dalhart-Combined Bare (Factor ZX): Variable Trajectories |
|----|----------------------------------------------------------|
| a. | Factors 1 and 2                                          |
| b. | Factors 3 and 4 215                                      |
| 36 | DalhartStubble (Factor SX): Variable Trajectories        |
| a. | Factors 1 and 2 220                                      |
| b. | Factors 3 and 4 222                                      |
| 37 | Dalhart Corn (Factor CX): Variable Trajectories          |
| a. | Factors 1 and 3 229                                      |
| h. | Factors 2 and 4                                          |

#### MULTI-SENSOR DETERMINATION OF SOIL MOISTURE

#### I. Introduction

The Guymon soil moisture data set which was the source for the analyses reported by Hajic (1981) was revised.\* This revised Guymon data and the Dalhart soil moisture data collected on August 14, 16, and 18, 1980 have each been grouped into four field cover types for statistical analysis. The Guymon data is grouped as bare, alfalfa, mile with rows perpendicular to the field of view, and mile viewed parallel to the field of view. The Dalhart data is grouped as bare combo (including bare stubble, pasture, and millet), stubble (including vegetated, disked, wheat and mulched stubble), disked stubble, and corn fields. Tables 1A and 1B show the data collection fields and dates for each cover type in the Guymon and Dalhart data sets respectively. Tables 2A and 2B summarize the variables and associated symbols used in the analysis. Prefix and suffix symbols are explained and data set names identified.

The organization of the analysis summary is parametric in field cover type with the same types of analyses performed for each cover type. It is preceded by an overview with summery graphs which combine selected analyses to compare the effects of field cover. The analysis for each of the cover types is presented principally in the form of graphs and tables with only brief commentary since in-depth examination of these results has not yet been done.

The remainder of the report consists of tables of elementary statistics, correlation matrices, and single variable regressions. A concluding chapter summarizes selected eigenvector and factor analyses. The elementary

Per revisions by TAMU, Spring 1981.

statistics provide the mean and standard derivation of all variables. Correlation matrices were determined for high correlating sensors and for correlation between soil depths. The highest correlating sensor types for SMO2 (Guymon) and FLDO2 (Dalhart) are summarized via tables of the intercepts and regression coefficients. These variables represent the values of the flight line volumetric soil moisture in the 0-2 cm depth layer and the field average volumetric soil moisture in 0-2 cm depth layer respectively.

1978

| -        | 1-16           | 214  | (2+)   | 0 6   | 0_0    | 9.11 | 0 14 | 6 15     |  |  |
|----------|----------------|------|--------|-------|--------|------|------|----------|--|--|
|          | 1 1211         | ***  | 2.0    | 8-5   | 0 0    | 070  | 8-/7 | 8+11     |  |  |
|          | 2              |      |        |       |        |      |      |          |  |  |
|          | 22             | 2    |        |       |        |      |      |          |  |  |
|          | 21             |      |        |       |        |      |      |          |  |  |
| Ш        | 21             | 2    |        |       |        |      |      |          |  |  |
|          | 1 4            |      |        |       |        |      |      |          |  |  |
|          | 26             |      |        |       |        |      |      |          |  |  |
|          |                |      |        |       |        |      |      |          |  |  |
| m        | ,,,            |      | la.    |       |        |      |      |          |  |  |
| <u>'</u> | ШÞ             | acb  | 7(72   | obser | vation | (20  |      |          |  |  |
|          | Fie            | ld   | 8-2    | 8-5   | 8-8    | 8-11 | 8-14 | 8-17     |  |  |
|          | ++++           |      |        |       |        |      |      | <u> </u> |  |  |
|          | 13             |      |        |       |        |      |      |          |  |  |
|          | 22             |      |        |       |        |      |      |          |  |  |
|          | 27             |      |        |       |        |      |      |          |  |  |
|          |                |      |        |       |        |      |      |          |  |  |
| W        | ilo            | 95   | - (7>  | obser | wa tin | \    |      |          |  |  |
|          |                |      |        |       |        |      |      |          |  |  |
|          | Fic            | ld   | 8-5    | 8-5   | 8-8    | 8-II | 8-14 | 8-17     |  |  |
|          | 7              |      |        |       |        |      |      |          |  |  |
|          | 1 A            |      |        |       |        |      |      |          |  |  |
|          | 1 A            |      |        |       |        |      |      |          |  |  |
|          | 15<br>28       |      |        |       |        |      |      |          |  |  |
|          |                |      |        |       |        |      |      |          |  |  |
| 4        | fal            | fs   | - (48  | obser | -vatio | 75)  |      |          |  |  |
|          |                |      | ****** | 8-5   |        |      |      |          |  |  |
|          | - 110          | u.c. | 0-6    | 6.5   | 8-8    | 8-11 | 8-14 | 8-17     |  |  |
|          | 4              |      |        |       |        |      |      |          |  |  |
|          | 13<br>22<br>27 |      |        |       |        |      |      |          |  |  |
|          | 27             |      |        |       |        |      |      |          |  |  |
| ď        |                |      |        |       |        |      |      |          |  |  |

|          |       |       |              | L           | ta   | Soc  | ,re   | <b>'</b> | ic l | d q                                                                                                             | ·d       | De'. | te    |              |     |       |     |
|----------|-------|-------|--------------|-------------|------|------|-------|----------|------|-----------------------------------------------------------------------------------------------------------------|----------|------|-------|--------------|-----|-------|-----|
|          |       |       |              |             |      | Do   | lho   | irt      | 19   | 80                                                                                                              |          |      |       |              |     |       |     |
| R        | 100   | 60    | <u>.</u> L.  | _/-         | , u  | 065  |       |          | Y    |                                                                                                                 | ζ.       | 1    | 10.   | ///          |     |       |     |
|          |       |       |              |             |      |      | 1     | Jon.     | 7    |                                                                                                                 |          |      |       | 1            |     | t obs | 1   |
| l E      | ie l  | d     | 8-1          | 48          | 16   | 8-18 | 3     |          |      |                                                                                                                 | Fie      | 19   | 814   | 8            | 16  | 8-1   | 8   |
|          | 3 B   |       |              |             |      |      |       |          |      |                                                                                                                 |          |      |       |              |     |       |     |
|          | 4 B   |       |              |             |      |      |       |          |      |                                                                                                                 | 10       |      |       |              |     |       |     |
|          | 3 4 5 |       |              |             |      |      |       |          |      |                                                                                                                 | 1        |      |       |              |     |       |     |
|          | 4     |       |              |             |      |      |       |          |      |                                                                                                                 | 2        | D    |       |              |     |       |     |
|          | 6     |       |              |             |      |      |       |          |      |                                                                                                                 | <u>د</u> | !    |       |              |     |       |     |
|          | 0     |       |              |             |      |      |       |          |      |                                                                                                                 | _ 2.     | ۲    |       |              |     |       |     |
|          |       |       |              |             |      |      |       |          |      |                                                                                                                 |          |      |       |              |     |       |     |
|          |       |       |              |             |      |      |       |          |      |                                                                                                                 |          |      |       |              |     |       |     |
|          |       |       |              |             |      |      |       |          |      |                                                                                                                 |          |      |       |              |     |       |     |
|          |       |       |              |             |      |      |       |          |      |                                                                                                                 |          |      |       |              |     |       |     |
| 54       | ub    | le    | Com          | Sine        | -(5  | 6 06 | serya | tion     | 5)   |                                                                                                                 | Cori     | 7 -  | (3 2  | oLse         | rvc | tion  | (2. |
|          |       |       | 1:::1:::     |             |      |      |       |          |      |                                                                                                                 |          |      | 1     |              |     | 1     |     |
| <u></u>  | डाव   | 8     | -14          | <u>8-16</u> | 8-   | 18   |       |          |      |                                                                                                                 | Fie      | ld   | 844   | 8            | 16  | 8-18  | 3   |
| 13       |       |       |              |             |      |      |       |          |      |                                                                                                                 | 1        |      |       |              |     |       |     |
| 14       |       |       |              |             |      |      |       |          |      |                                                                                                                 | 2        |      |       |              |     |       |     |
| 15       |       |       |              |             |      |      |       |          |      |                                                                                                                 | 7        |      |       |              |     |       |     |
| 16       |       |       |              |             |      |      |       |          |      |                                                                                                                 | _8       |      |       |              |     |       |     |
| 18       |       |       |              |             |      |      |       |          |      |                                                                                                                 | 9        |      |       |              |     |       |     |
| 19       |       |       |              |             |      |      |       |          |      |                                                                                                                 | 11       |      |       |              |     |       |     |
| 20       |       |       |              |             |      |      |       |          |      |                                                                                                                 | 12       |      |       |              |     |       |     |
| 25       |       |       |              |             |      |      |       |          |      |                                                                                                                 |          |      |       |              |     |       |     |
|          |       |       |              |             |      |      |       |          |      |                                                                                                                 |          |      |       |              |     |       |     |
| 34       |       |       |              |             |      |      |       |          |      |                                                                                                                 |          |      |       |              |     |       |     |
| 34       | ,     |       |              |             |      |      |       |          | 1    |                                                                                                                 |          |      | 1     |              |     |       |     |
| 34       | /     |       |              |             |      |      |       |          |      |                                                                                                                 |          |      |       |              |     |       |     |
| 34       | /     |       |              |             |      |      |       |          |      |                                                                                                                 |          |      |       |              |     |       |     |
| 34       | ,     |       |              |             |      |      |       |          |      |                                                                                                                 |          |      |       |              |     |       |     |
| 34       | ,     |       |              |             |      |      |       |          |      |                                                                                                                 |          |      |       |              |     |       |     |
| 34       |       |       |              |             |      |      |       |          |      |                                                                                                                 |          |      |       |              |     |       |     |
| 3w<br>1w | ,     | . L/a |              | ادد         | 1,   |      |       |          | J c  |                                                                                                                 |          |      |       |              |     |       |     |
| 3w<br>1w | ,     | e ld  | יט צ         | sed         | _als | so ì | ~ Z   | iske     | d s  | , <u>&amp;</u> c.6                                                                                              | ble      | gr   | اجا   | s <i>i</i> s |     |       |     |
| 3w<br>1w | ,     | e ld  | s v:         | sed         | als  | so ì | n D   | siske    | ,d < | مخدله                                                                                                           | ble      | gr   | ıalya | s/s          |     |       |     |
| 3w<br>1w | ,     | e ld  | s v          | sed         | als  | so ì | n D   | )ìs k    | ,d s | المراجع | ble      | Gμ   | ıalya | s/s          |     |       |     |
| 3w<br>1w | ,     | e Id  | s <i>u</i> . | sed         | als  | so ì | n D   | iske     | .d < | \&c\ <b>6</b>                                                                                                   | ble      | ςγ   | ıalys | 21.5         |     |       |     |

| Vol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                         |                                              | 21                 |                        |                                    |           | STATE OF THE PARTY |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|----------------------------------------------|--------------------|------------------------|------------------------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Vol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                         |                                              | insor cho          | annel Var              | iables                             |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Vol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | * 1 T T T T T T T T T T T T T T T T T T |                                              |                    |                        |                                    |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Vol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | , , ,                                   | - 11 00                                      |                    |                        |                                    |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | metric                                  | Soil Mic                                     | pisture (90        | ر                      |                                    |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |                                              | UP                 | per depth              | laver                              | desth     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| SM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Ø2                                      | FLDO.                                        | 2                  | or cm                  |                                    | cm        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| SM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 25                                      | FLD 2                                        | 5                  | 2                      | 5                                  |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| a promote This contract was                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 59<br>915                               | FLD 9/3                                      |                    | 5                      | 1 9                                |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| The second secon |                                         | FLD ØI                                       |                    | ø                      | 15                                 |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1530                                    | FLD 15                                       | 300                | Ø<br>15                | 15                                 | 9         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3045                                    | F4 D 30                                      |                    | 30                     | 4:                                 |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |                                              |                    |                        |                                    |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |                                              |                    |                        |                                    |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                         |                                              |                    | 0 1                    |                                    |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Claret                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ix) dat                                 | a are as                                     | rereges o          | t, selectice           | treld                              | sample    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Poin                                    | ts lying                                     | along E            | f selected<br>he track | of the                             | Tright    | ine.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1/92                                    | a in po                                      | enent.             |                        |                                    |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Cir) /                                  |                                              |                    | 10-11-11               | 1 0:1                              | 75        | 7_                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| LUGFE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1111 00                                 | a are                                        | gverages           | of all el<br>percent.  | e rier                             | a samp    | /6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | $\sim$                                  | ames. L                                      | 1969 11            | percent.               |                                    |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |                                              |                    |                        |                                    |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |                                              |                    |                        |                                    |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Scat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | terom                                   | eters                                        |                    |                        |                                    |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         | 11110 / /-                                   | mark .             | .,                     |                                    |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         | HHIG L5                                      | HV 16 L5           | HH445                  | HV4L                               | 2         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3410                                    | H#1640                                       | 441640             | HH 4 LIO<br>HH 4 LIS   | HV 4 41                            | 9         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         | HH16LZO                                      | HV16130            | HH 4120                | HV 4 L                             |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |                                              | HV 16/25           | HH4125                 | HV4/2                              | 5         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |                                              |                    | HH4L35                 |                                    |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3 440                                   | HH16L40                                      |                    | HH4 L40                |                                    |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         | HH 16445                                     |                    | 5 HH4L45               |                                    |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |                                              |                    |                        |                                    |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | HH475                                   |                                              | 147515             | Prefix                 | polariza                           | tion type | and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         | ILIO HU                                      | 1475410            |                        | fre                                | vency     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | HH 475                                  |                                              | 1 11-2-1 1 200     | HH16 h                 | rizontal t                         |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ## 475<br>## 475                        | FLIST HV                                     | 475415             |                        | LIEDU COLL                         | TANSMIE,  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ## 475<br>## 475<br>## 475              | 5 L15 HV                                     | 1475120            |                        | horizonta                          | 1 receive | 1.66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ## 475<br>## 475<br>## 475<br>## 475    | 5 L15 HV<br>5 L20 HV                         | 1475L20<br>1475L25 | HVI6 he                | norizontal                         | 1 receive | 1.66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ## 475<br>## 475<br>## 475              | 5 L15 HV<br>5 L20 HV<br>5 L25 HV<br>5 L35 HV | 1475120            | HVI6 ho                | horizonta<br>prizontal<br>Vertical | 1 receive | 1.66<br>66hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

| MFMRHC C band Horizontal polarization MFMRHL L band Horizontal polarization MFMRVC C band Vertical polarization  Barmes Prt5 | HH475 horizontal &<br>HV475 horizontal<br>Suffix: look and | transmit | , vertice | r-in degre           | 4.75 Ghz                        |
|------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|----------|-----------|----------------------|---------------------------------|
| MFMRVC C band Horizontal Colorization MFMRVC C band Vertical polarization  Barnes Prt5                                       | MMS4<br>MMS 7<br>MMS 8<br>MMS 9                            | tral S   | Scanne/   | .548<br>.667<br>.703 | .583 µm<br>.701<br>.747<br>.863 |
| MFMRVC C band Vertical polarization  Barmes Pet 5                                                                            | MEMRHC                                                     |          | band      |                      |                                 |
|                                                                                                                              | MFMRVC                                                     | C        | band      | Vertical             | polarization                    |
|                                                                                                                              | Bornes Prt 5                                               |          |           |                      |                                 |
|                                                                                                                              |                                                            |          |           |                      |                                 |
|                                                                                                                              |                                                            |          |           |                      |                                 |
|                                                                                                                              |                                                            |          |           |                      |                                 |
|                                                                                                                              |                                                            |          |           |                      |                                 |

USRE 10 x 10 TO THE CENTIMETER AS-8014-60

peached, confeque companions halter

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Channel V   | ariables    |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|
|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |             |
| Volumetric Soil          | Moisture (                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 90)         |             |
|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |             |
| CM CX FIDE               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | upper depth | lower depti |
| SMOZ FLDOZ<br>SM25 FLDZS | 医乳头素 化光环 化基金化物 医多生性 医多生性 医多生性 医多生性 化二甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 7           | 2 cm        |
| SM 515 FLO 5/5           | · · · · · · · · · · · · · · · · · · ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 3           | 15          |
| SM Ø15 FLDØ1             | 1 · · · · · · · · · · · · · · · · · · ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 15          | 15          |
| SM1530 FL DIS            | Control of the Contro |             | 3,0         |
| SM 3045 FLD 30           | 45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 30          | 45          |
|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |             |
|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |             |
| M Core fix               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |             |
|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |             |
|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |             |
| 000                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |             |
| OC, orefix)              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |             |
|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |             |
|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |             |
|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |             |
|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |             |
| Scotterometers           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |             |
| Some Seaso               | re anales                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | and labels  | as Guymon.  |
|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |             |
|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |             |
|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |             |
| Thematic Mapp            | er simula                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | tor         |             |
| Band                     | lower                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | - שנתבניט   |             |
|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |             |
|                          | 450                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 520 1       | 7 m         |
| 3                        | 520                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 600         |             |
| 3                        | 630                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 690         |             |
| 4                        | 1000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1300        |             |
| 5                        | 1550                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1750        |             |
| 7                        | 2080                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2350        |             |
| 8                        | 1040                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 12,500      |             |
|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |             |
|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |             |

ORIGINAL PAGE IS

Same as Guymon

#### 2. Overview

This overview is arranged in four parts to show the effect of cover types. These include the raw data, correlation coefficients, single variable regressions, and stepwise regressions as derived from the highest correlating variables. A critical and intensive examination of all these preliminary reports remains to be done.

### 2.1 Cover Type Comparisons

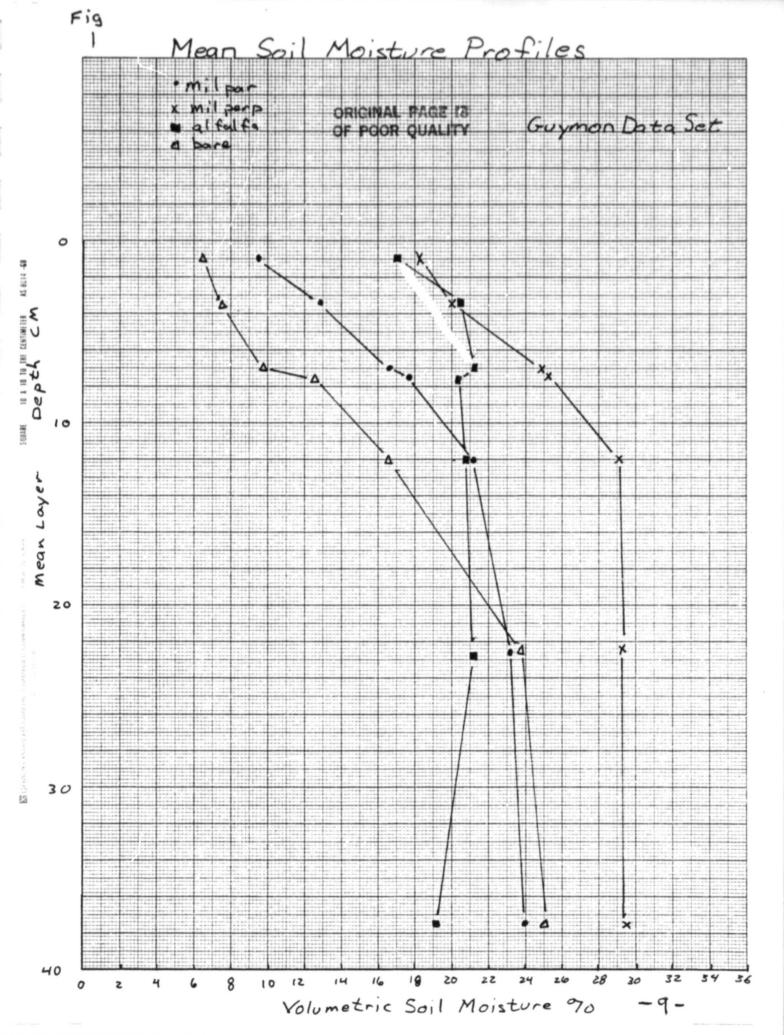
A large number of variables are being compared in this analysis. Explication of the effects of single variable changes in the analysis is complicated by the fact that comparisons of sensor types and responses contain the convolved effects of multi-variable changes soil moisture profiles, cover types and soil textures. In some instances, the effect of a single variable change is approximated via the regression equations.

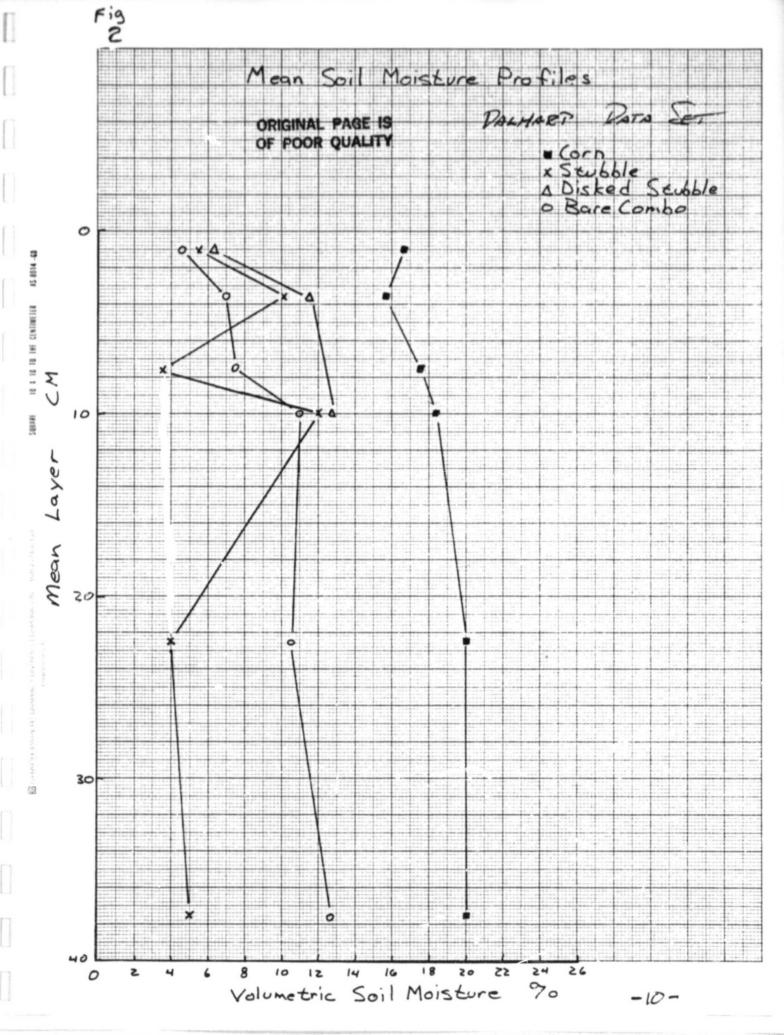
#### 2.1.1 Raw Data

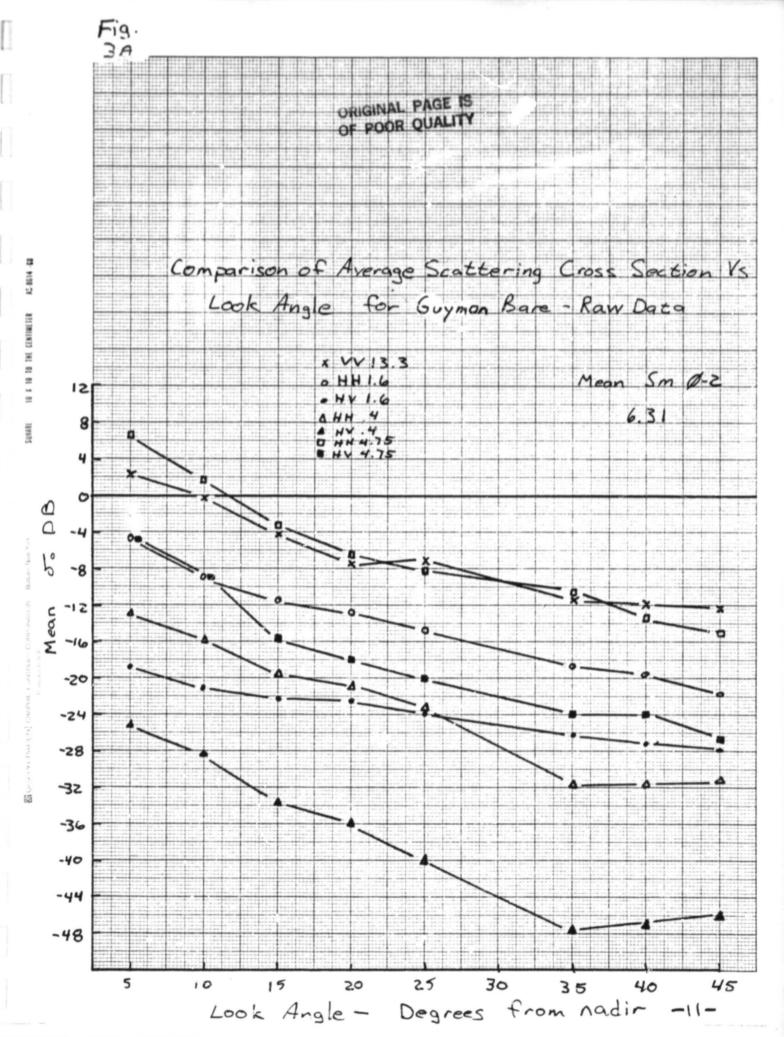
Consider first that determining the effects of cover types is difficult due to the fact that the sets of fields have significantly different moisture profiles. Figures 1 and 2 show the mean values of each layer plotted at the mean depth of each soil sample layer. Thus the mean scattering cross sections, Figures 3 and 4, incorporate these effects as do the plan view direction modulation for the milo fields (viewed parallel or perpendicular to the rows), in Figure 3E.

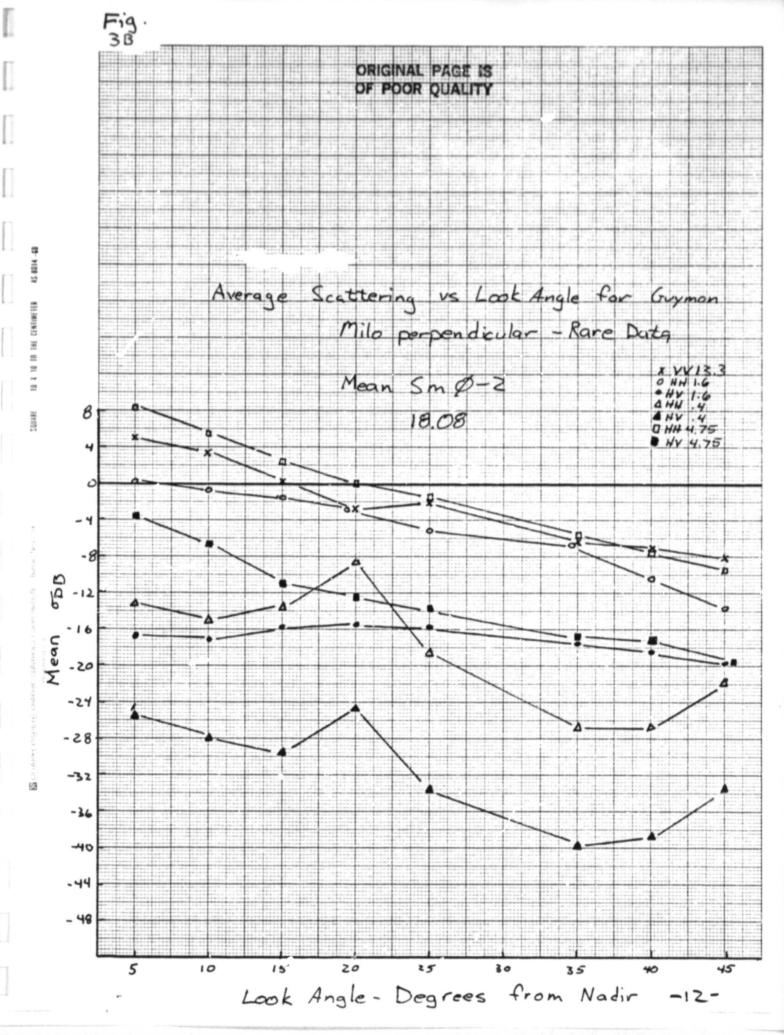
Soil textures also differ from field to field. Tables 3 and 4 briefly show the variation in textures of the sampled fields. Lees (1981) discussed the analysis of the soil texture vs soil moisture of the Guymon and Dalhart data sets, therefore these tables have been included here for comparison only.

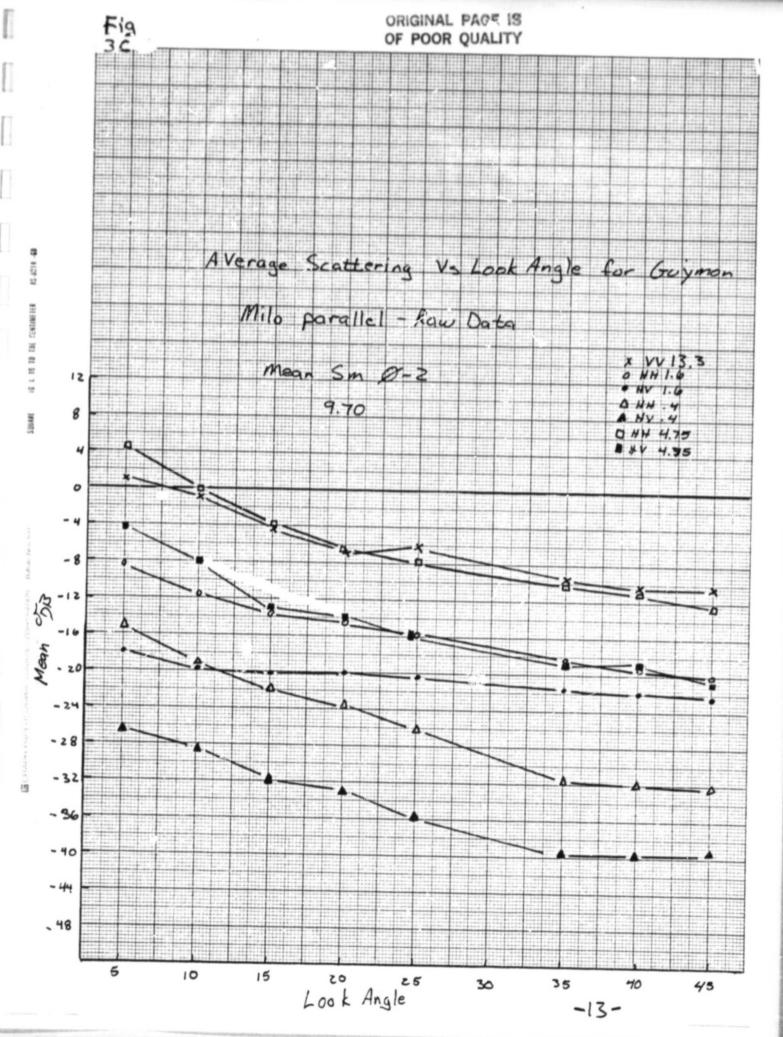
Noteworthy is relatively smaller excursions in mean scattering cross-section of the MV 1.6 Ghz sensor ( compared to all other sensors and polarizations) as look angle is varied. This is particularly evident in the Guymon data sets for all cover types (Figures 3A - 3D). It is significantly less evident in the Dalhart data sets (Figures 4A - 4D).

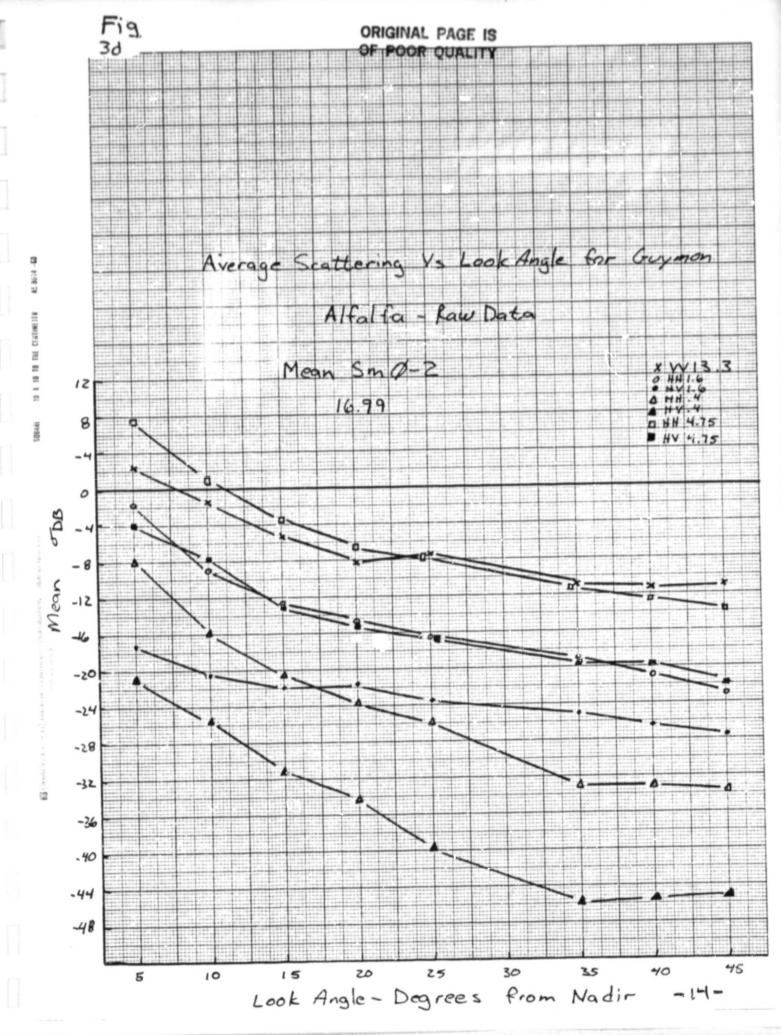


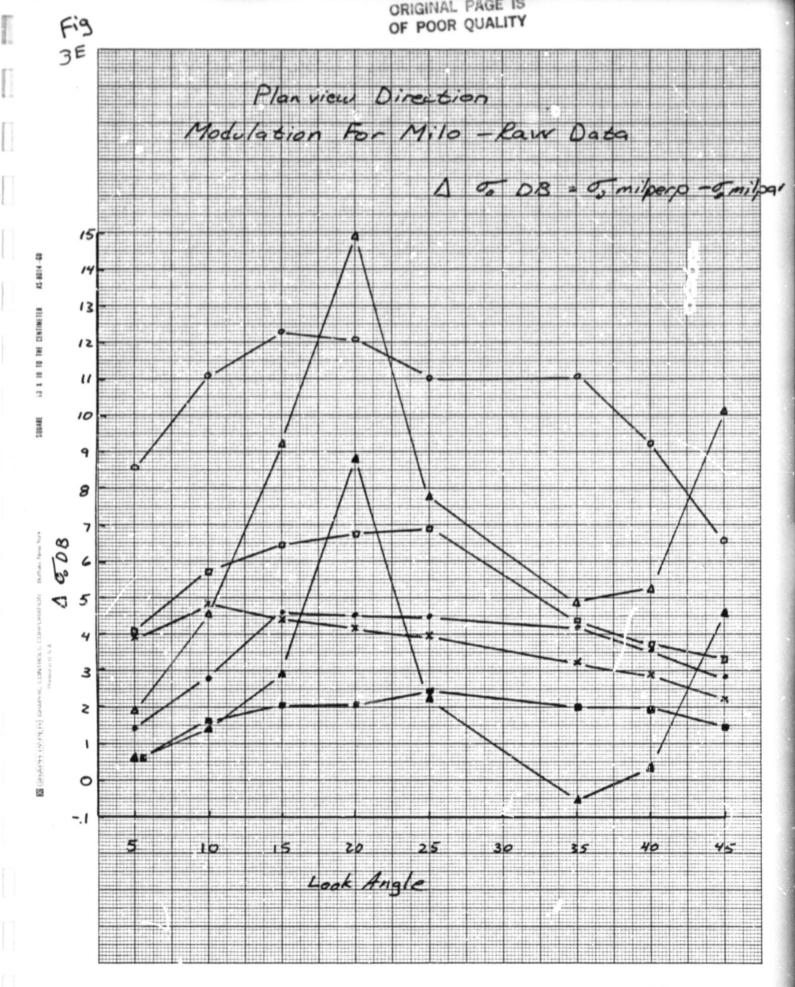


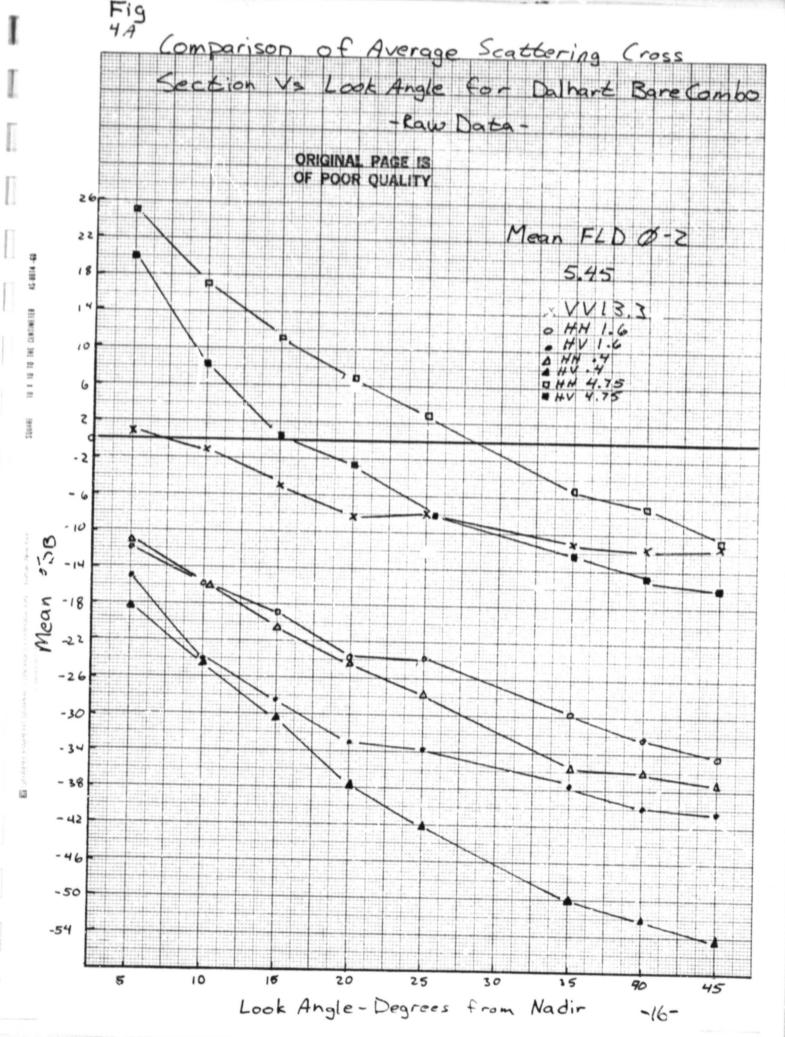


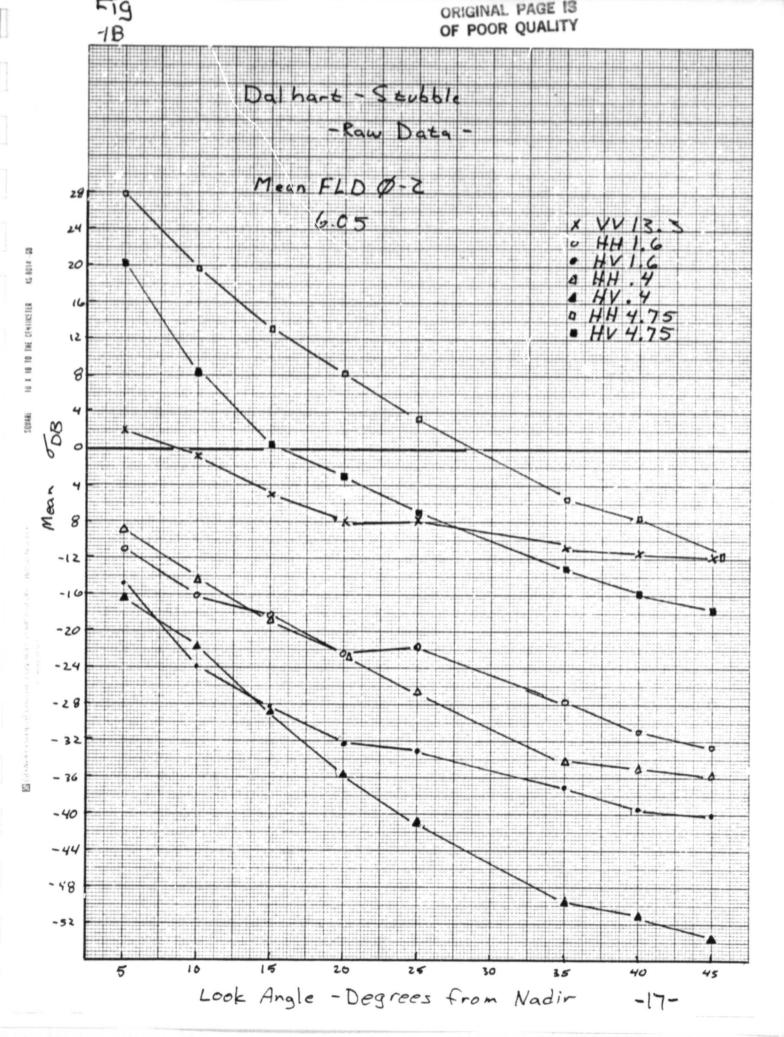


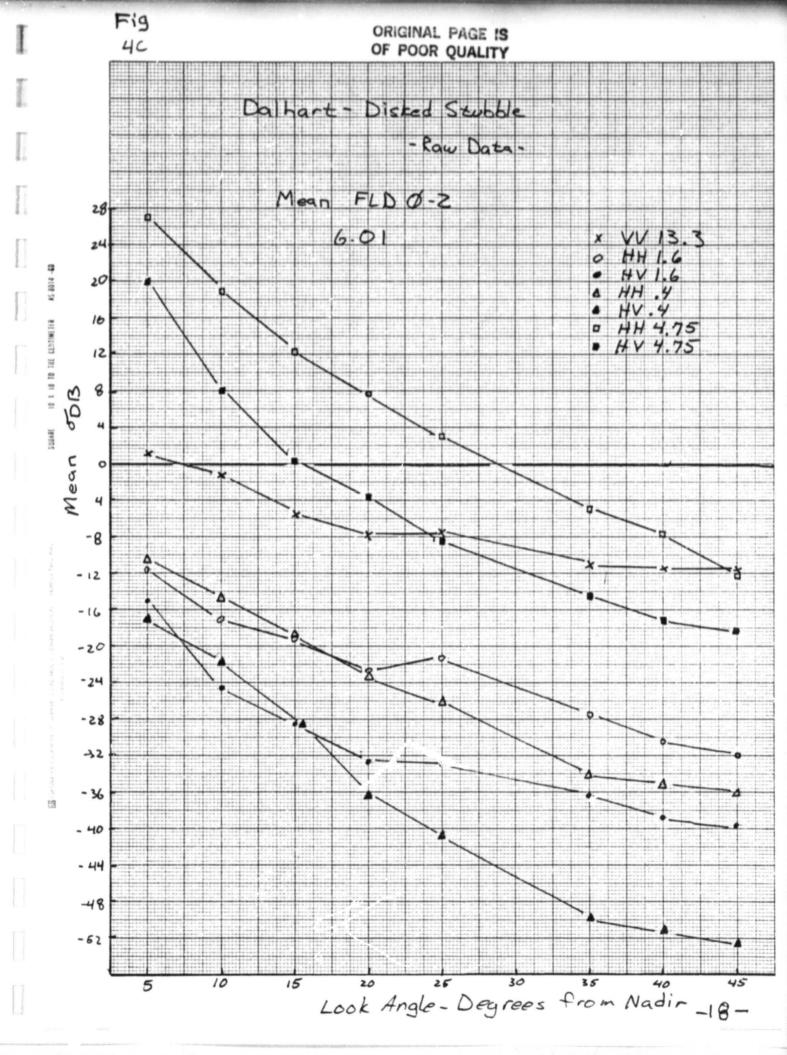


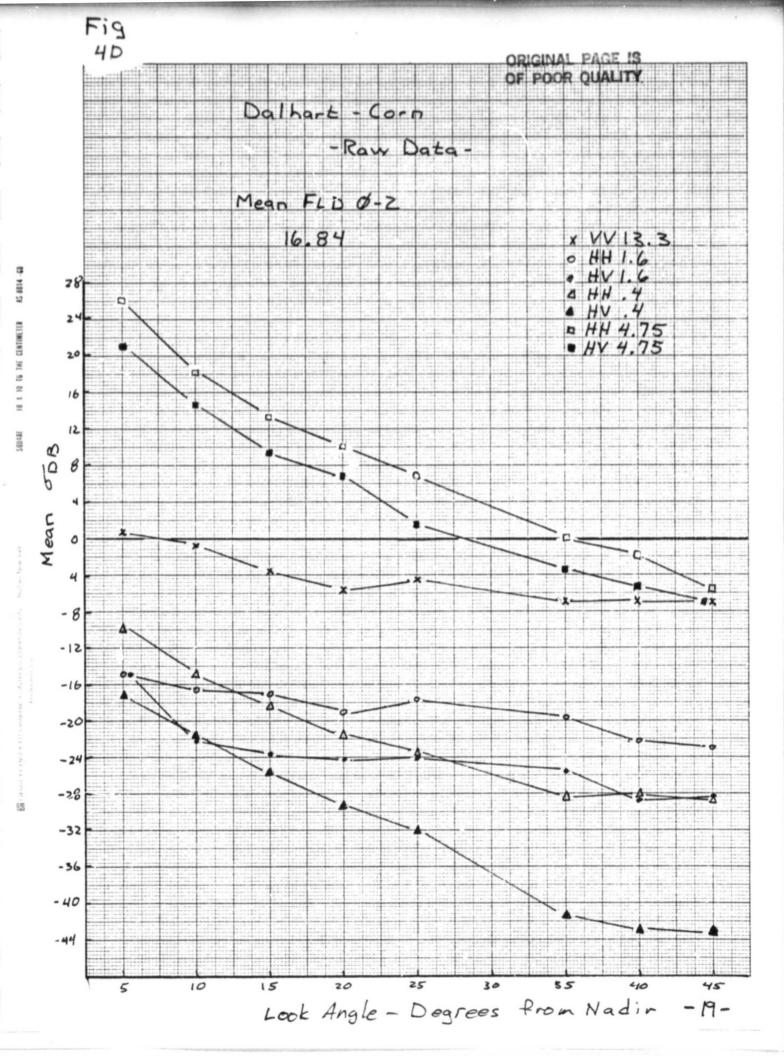












# ORIGINAL PAGE IS OF POOR QUALITY

|    |             |       | Or room e |           |          |
|----|-------------|-------|-----------|-----------|----------|
|    | FLD.        | SAND  | Julius.   |           | wr       |
| 2  | , L 1A      | 17. 0 | 39. 5     | . 0 4584  | 0, 2467  |
| 7  | LIXR        | 9. 5  | 42. 5     | • 0. 4906 | 0. 2659  |
| 1  | -B 2        | 28.2  | 31.6      | 0. 3931   | 0. 2016  |
| 2  | L 2A        | 15. 0 | 41.6      | • 0. 4735 | 0. 2581  |
| 1  | 6 2x        | 8. 5  | 42: 4     | 0.4924    | 0. 2661  |
| 4  | A 4         | 39. 0 | 25.6      | 0.3383    | 0.1659   |
| 1  | B 6         | 20.5  | 33. 2     | 0. 4004   | 0. 2091  |
|    | <b>L</b> Z  | 21.4  | 40. 4     | • 0.4528  | 0. 2482  |
| 2  | <u>L8</u>   | 33.4  | 34.5      | • 0.4057  | 0.2218   |
|    | 8 10        | 25. 0 | 33. 6     | 0.4105    | 0. 2133  |
| 4  | A 13        | 28. 2 | 32. 6     | 0.3981    | 0. 2064  |
|    | 6-14        | 43.3  | 27. 7     | 0.3389    | 0, 1732  |
| 2  | L 15        | 29.0  | 32. 6     | • 0.3963  | 0. 2059  |
| 1  | 6.17.       | 20.2  | 42. 4     | 0. 4655   | 0. 2586  |
| 0  | R 19        | 31. 5 | 38.0      | 0.4175    | .0. 2302 |
| 77 | R 20        | 30.0  | 34. 1     | 0.4015    | 0. 2125  |
|    | B 21        | 325   | 34. 7     | 0.3988    | 0. 2138  |
|    | A 22        | 34.5  | 31.5      | 0, 3781   | 0, 1971  |
|    | <b>R</b> 24 | 22. 0 | 44. 7     | 0. 4729   | 0. 2685  |
| 5  | R 25        | 21. 5 | 52. 3     | 0. 5120   | 0. 3053  |
|    | B 26        | 22.0  | 44. 5     | 0. 4719   | 0. 2675  |
| 1  | A 27        | 31.0  | 31.5      | 0.3862    | 0. 1994  |
|    |             |       |           |           |          |

Free

# DALHANT FIELD CAPACITY VALUES

| What<br>North | 2 SAND | ZCLAY   | FC       | WP      |
|---------------|--------|---------|----------|---------|
| 1.            | 79.0   | ALT: 10 | गर्युक्त | 0.0990  |
|               | 73.0   | \$0.0   | 0.2321   | 0. 1170 |
|               | 81.0   | 15.0    | 0.1887   | 0.0882  |
| 4             | . 80.0 | 16.0    | 0. 1960  | 0.0936  |
| 5             | 76.0   | 16.0    | 0.2052   | 0.0962  |
| 4             | 72.0   | 22.0    | 0.2444 - | 0.1275  |
| - 75          | 73.0   | 18.0    | 0.2221   | 0. 1077 |
| E4 .          | 71.0   | 17.0    | 0, 2217  | 0.1042  |
| 140           | 76.8   | 17.7    | 0. 2119  | 0.1008  |
| TO TIME       | TES    |         |          |         |

#### 2.1.2 Correlation Coefficients

The effects of scatterometer look angle, frequency, and polarization on correlation with volumetric soil moisture in the 0-2 cm layer is shown in Figures 5 and 8. Significant is the relatively constant correlation of the HV 1.6 Ghz sensor channel for look angles of  $\geq 10^{\circ}$  in the Guymon bare field data set. In comparison the HV 4.75 Ghz channel for look angles of  $\geq 10^{\circ}$  in the Dalhart bare field data set has relatively constant but lower correlation coefficients. For the latter set the HH 4.75 Ghz shows no correlation.

Note also the great disparity in the correlation results of the .4 Ghz HH and HV sensor. The Guymon bare field data shows increasing negative correlations for the HH polarization (with increasing look angle) and essentially no correlation for the HV data. In contrast, the .4 Ghz HV sensor ranks as one of the highest in (somewhat constant) correlation for the Dalhart bare (combo) field data. The .4 Ghz HH data shows a similar and somewhat lower correlation trend. These discrepancies have not been explained.

Throughout the data analysis relatively little difference in results were found in comparisons of the field average (FLD) vs. line (SM) soil moisture sets - most analysis results are also similar to those reported last year to later data editing (Hajic, 1981).

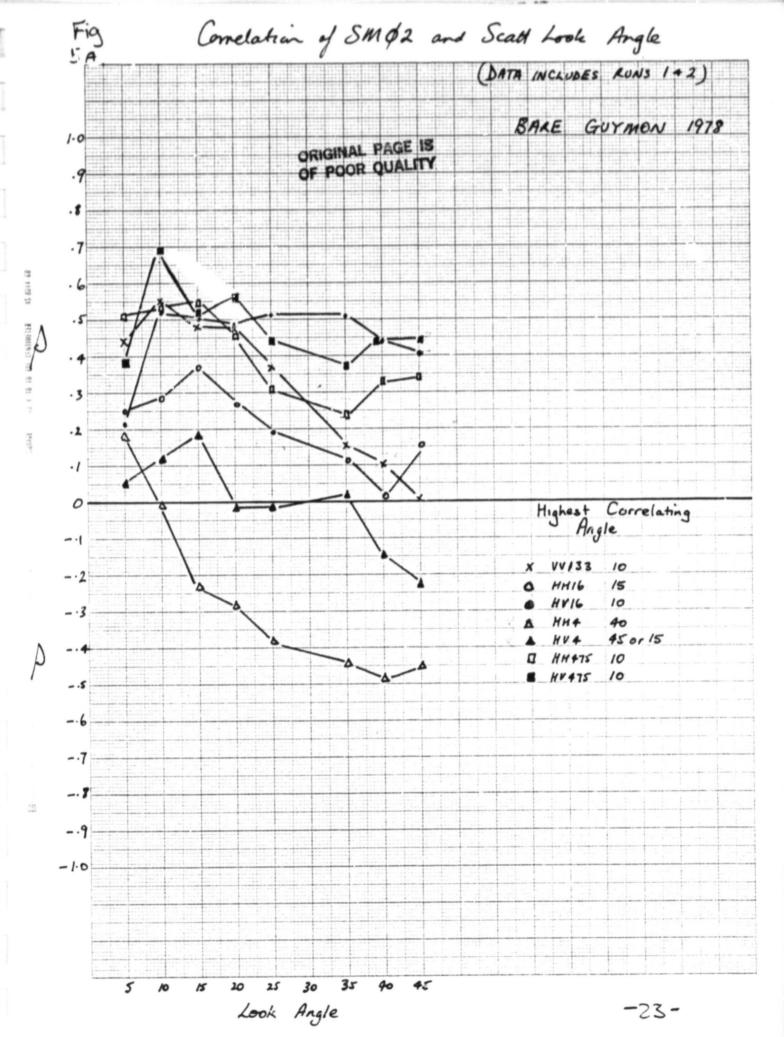
Figures 6 and 9 show correlations with passive microwave sensors.

Figure 7 similarly shows the correlations for the Modular Multispectral

Scanner (Guymon) and Figure 10 for the Thematic Mapper Simulator (Dalhart).

A comparison of the coefficients of correlation of the sensor responses with the volumetric soil moisture measured at progressively deeper layers is shown in Figures 11, 12, 13, and 14. The depth is plotted at the midway point for the layers 0-2, 2-5, 5-9, and 9-15 cm for Guymon with 0-2, 2-5,

and 9-15 cm for Dalhart. As a reference, the correlation of the soil moisture at each depth with that in the top 0-2 cm is shown. Since the latter is shown to remain relatively high and almost constant for all cover types, except bare, no conclusions can be readily reached regarding the distribution of depth to the sensor response. The generally high correlating scatterometer look angles of less than 25 degrees are shown. This is to show the significant effect of a relatively small change in look angle on the correlation.



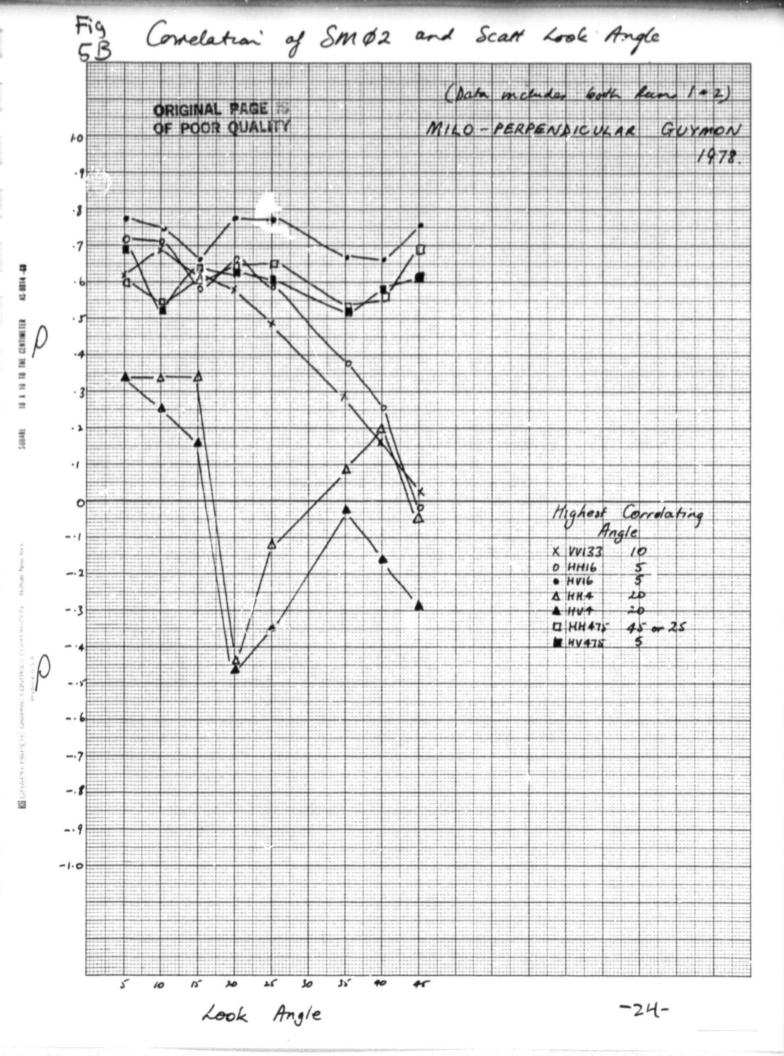
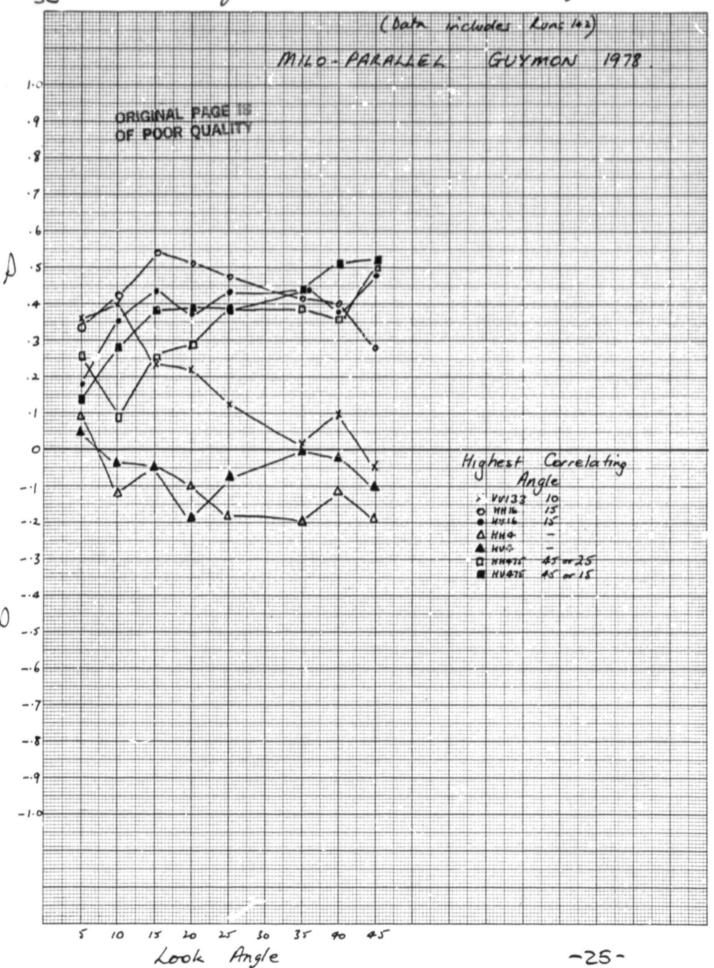
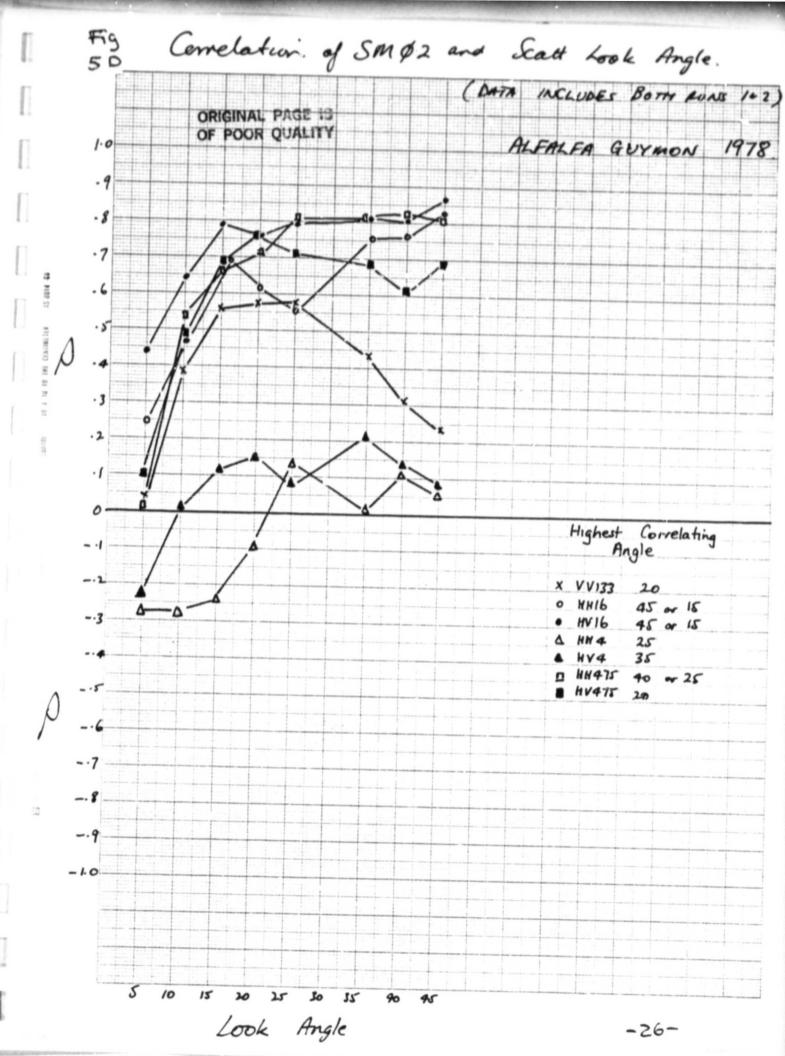


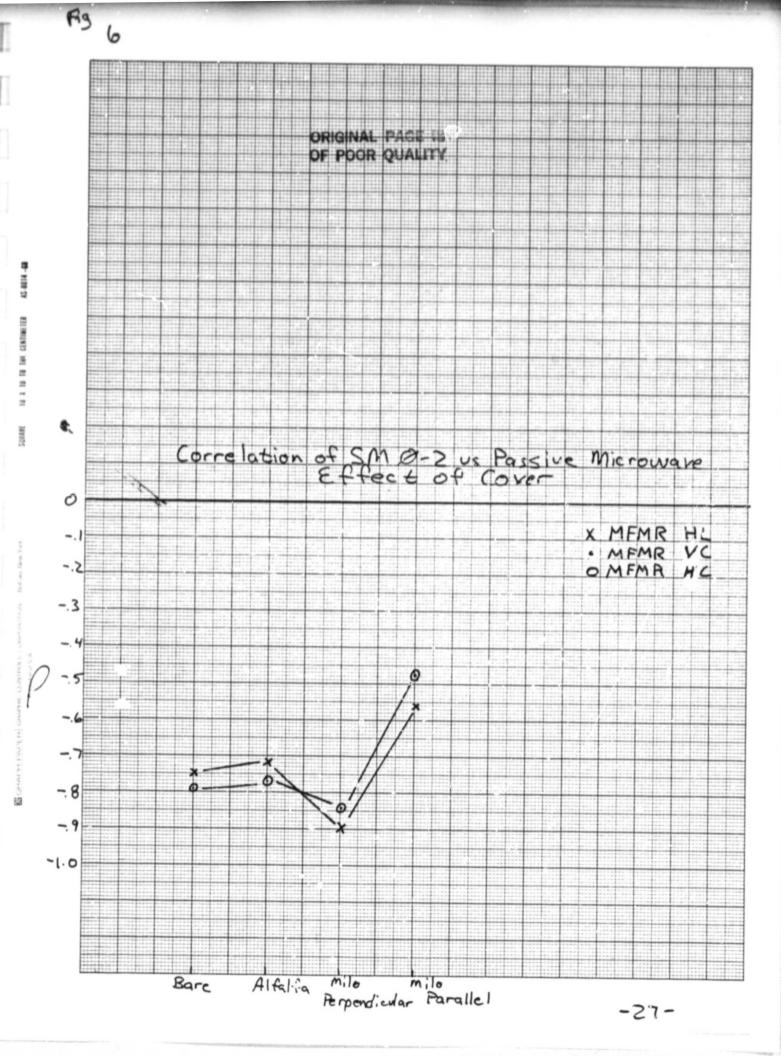
Fig Correlation of SMØ2 and Scatt Look Angle

TO A TO TO THE CENTIMETER



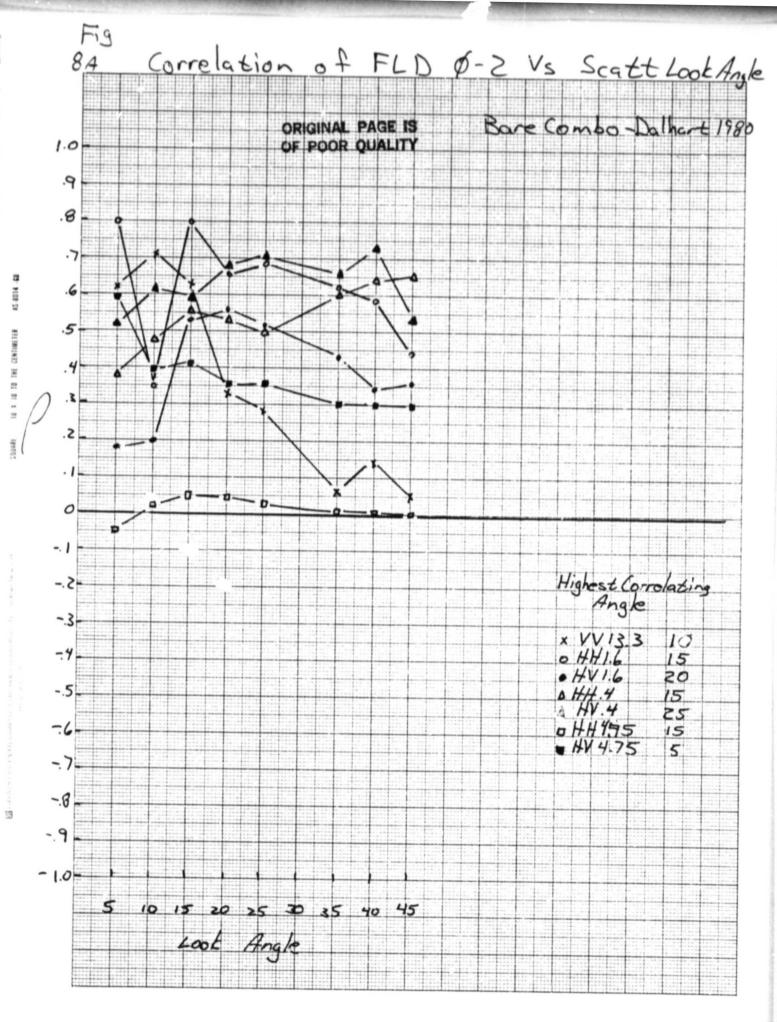
-25-

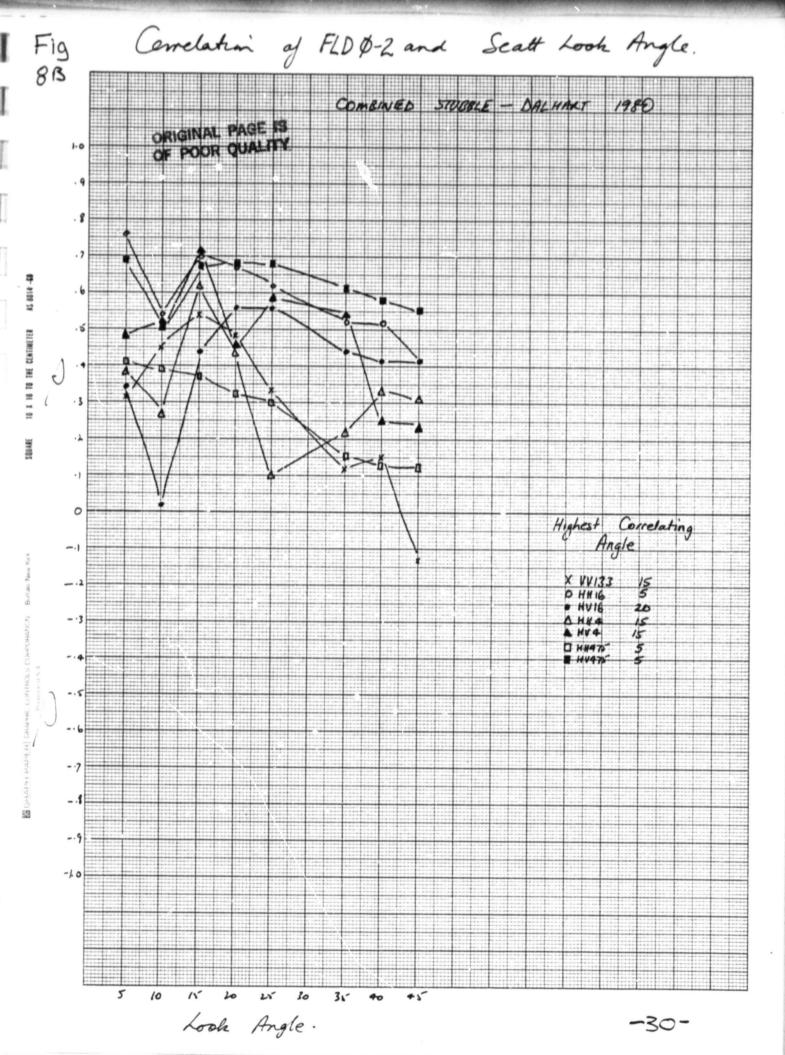


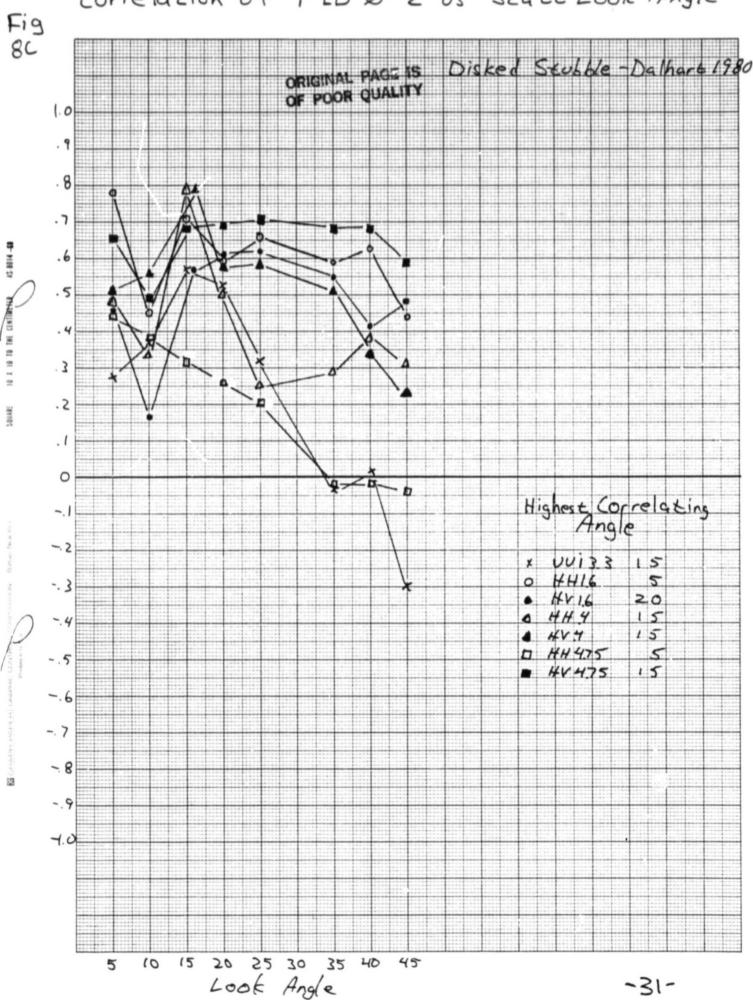


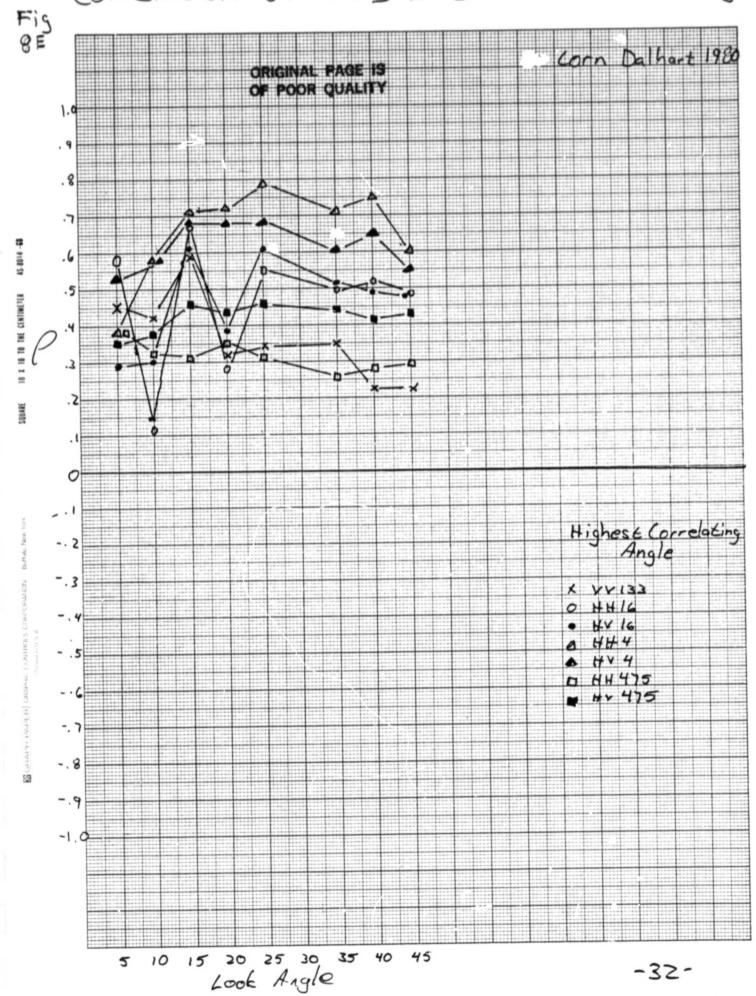
Correlation of SM Ø-Z VS M.M.S. 1.0 .8 .7 SQUARE 10 Y 10 TO THE CENTIMETER .5 .4 .2 -.3

1.0 7 MMS 11 -28-

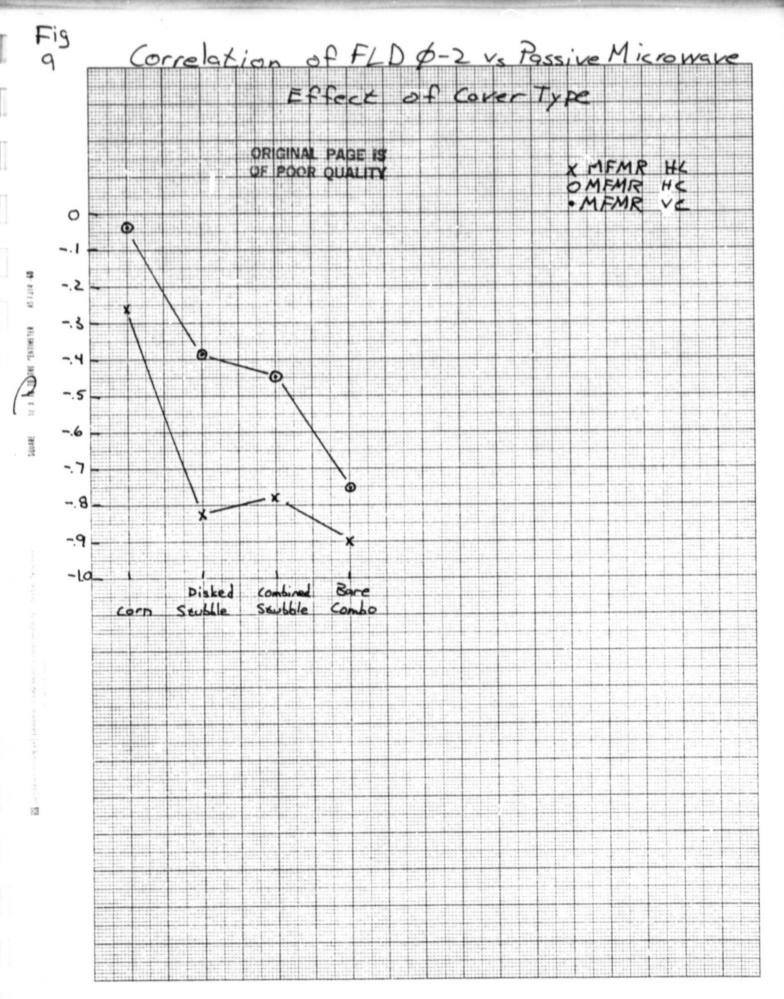


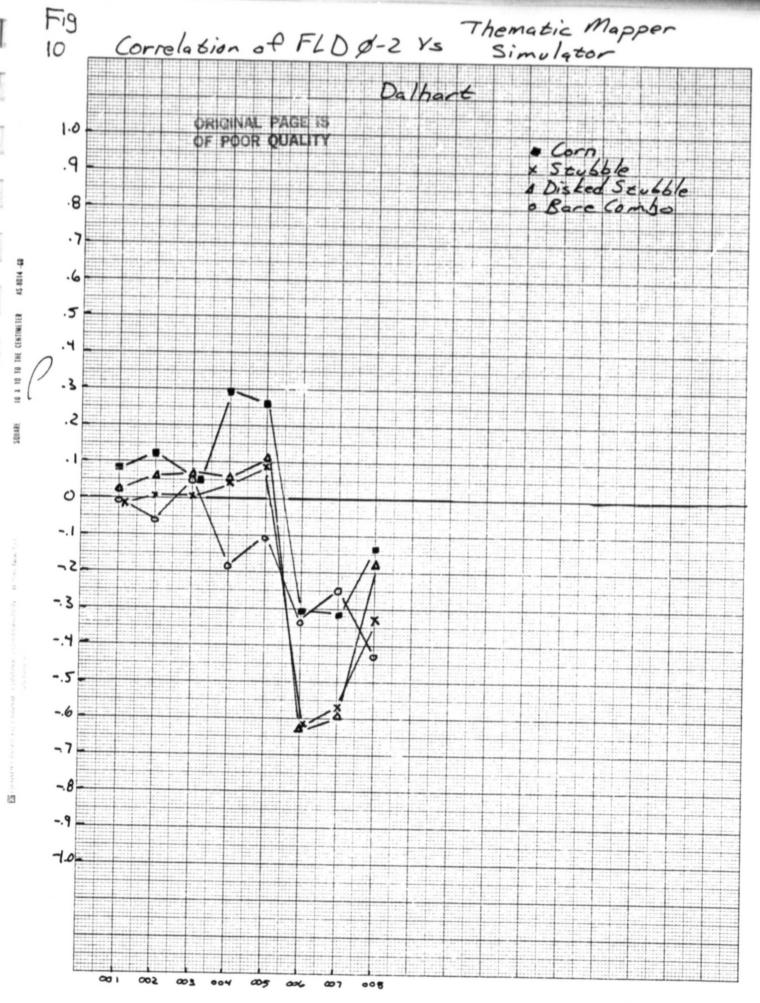


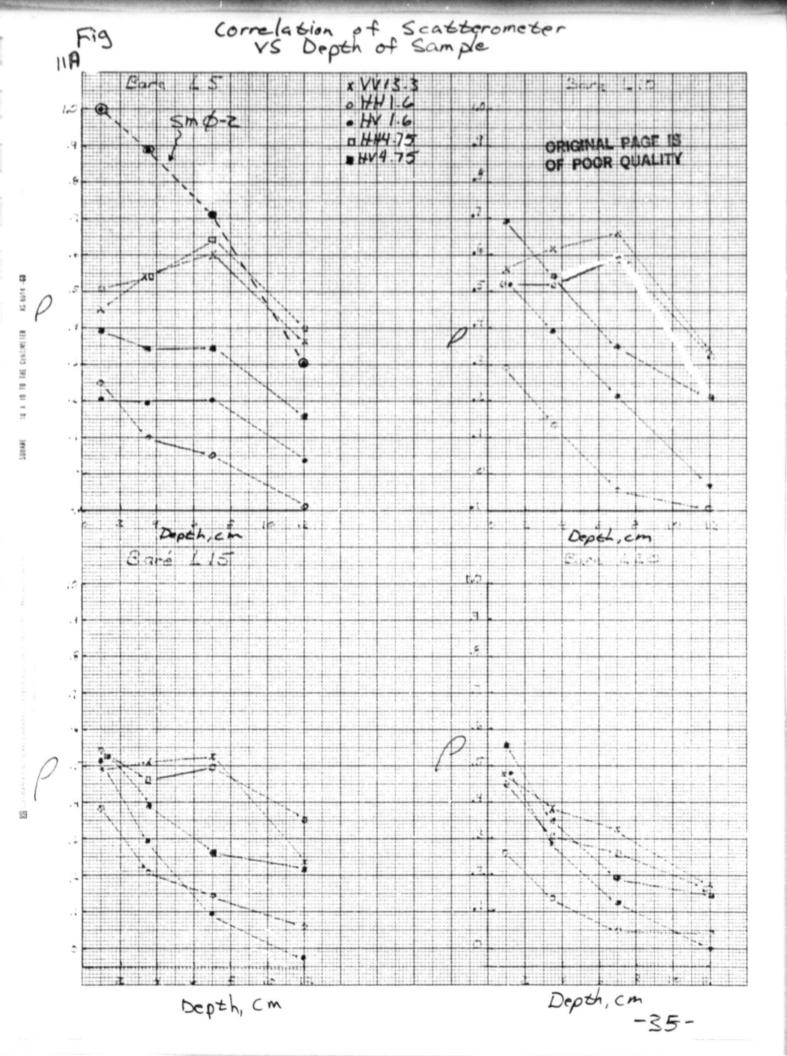


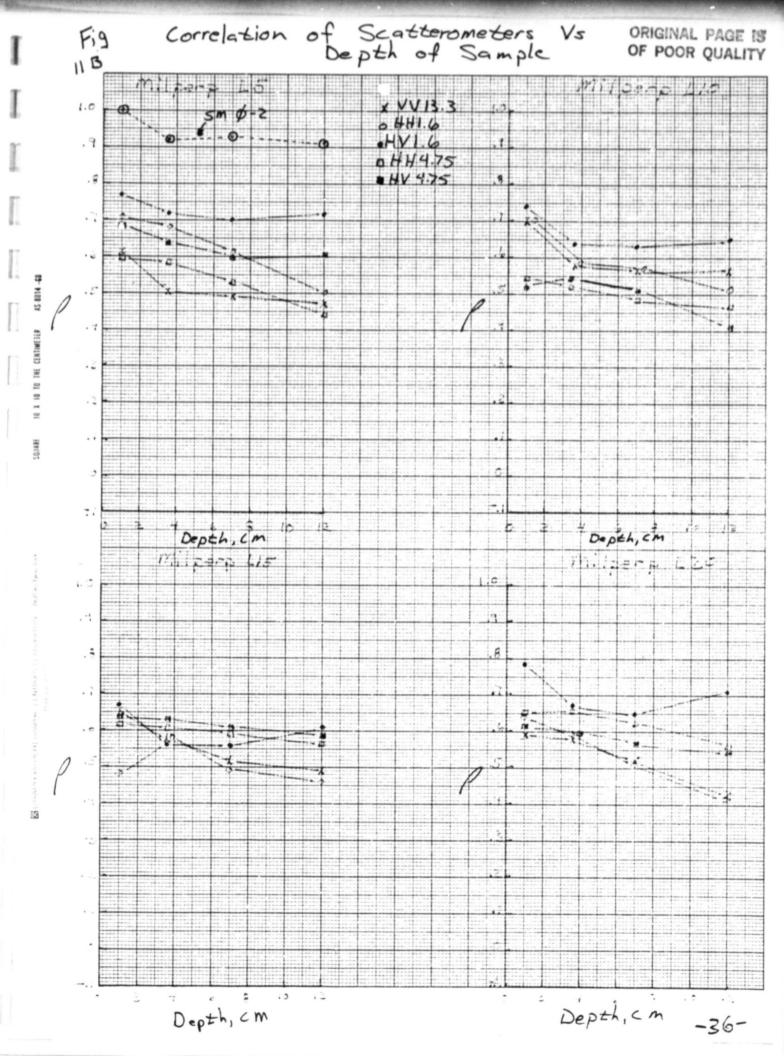


-32-







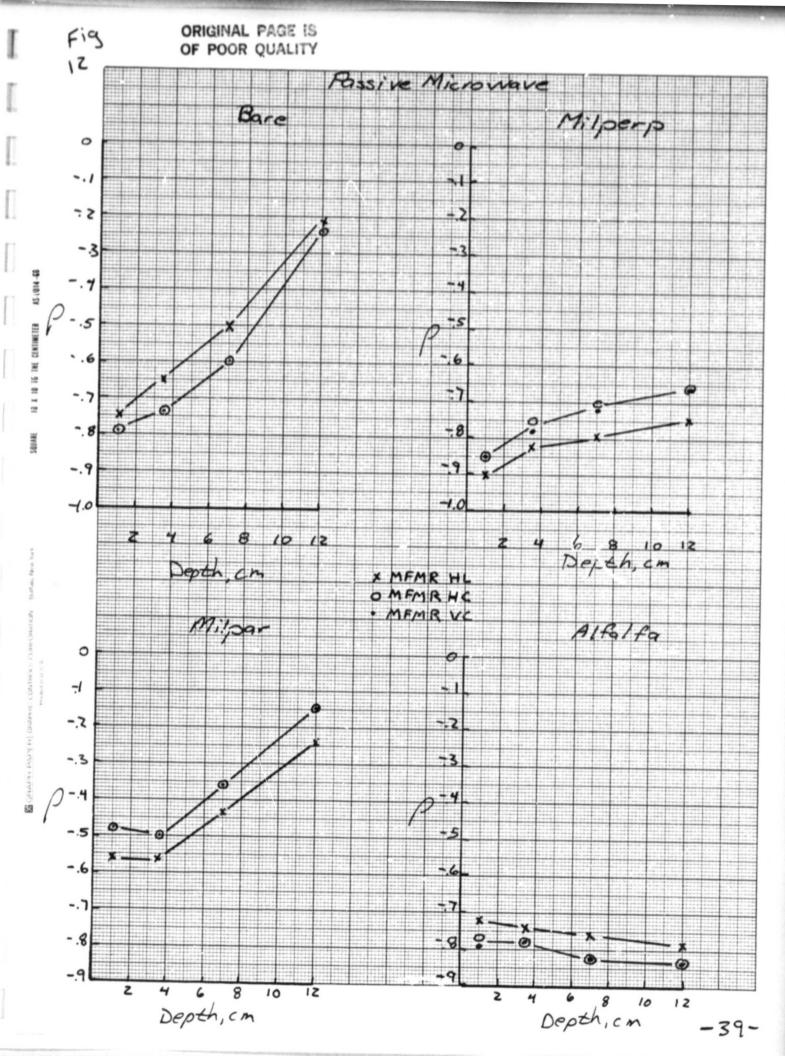


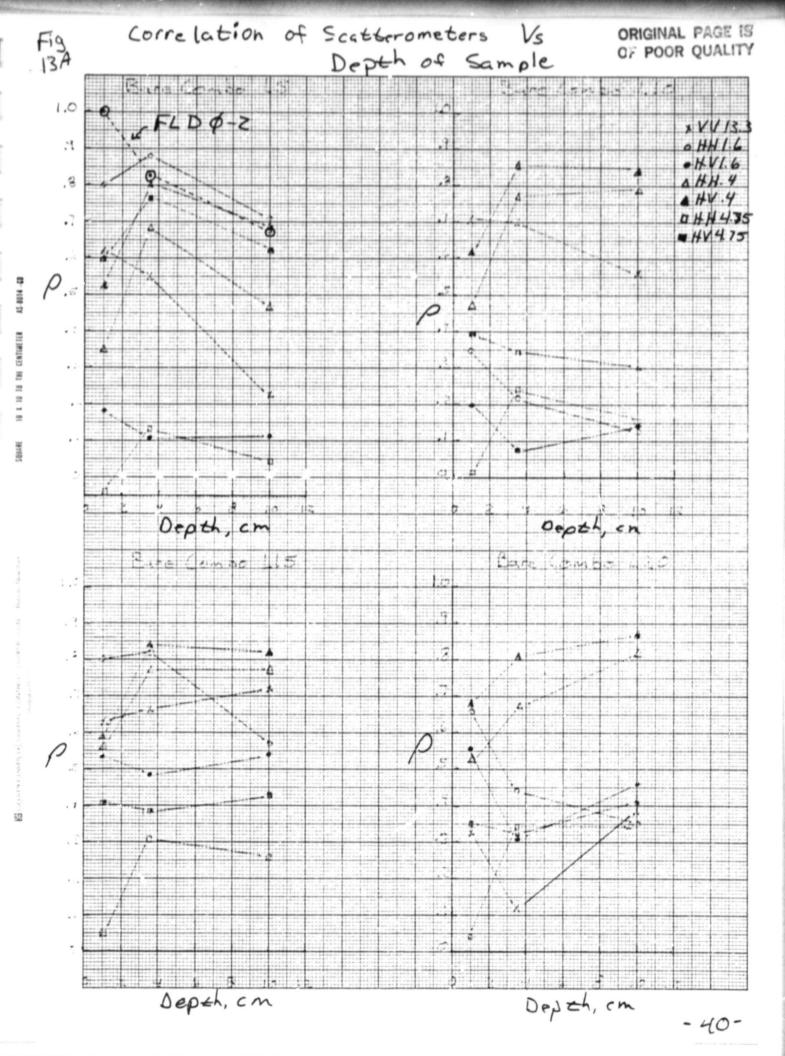
ORIGINAL PAGE IS O .8 ٥ Depth cm

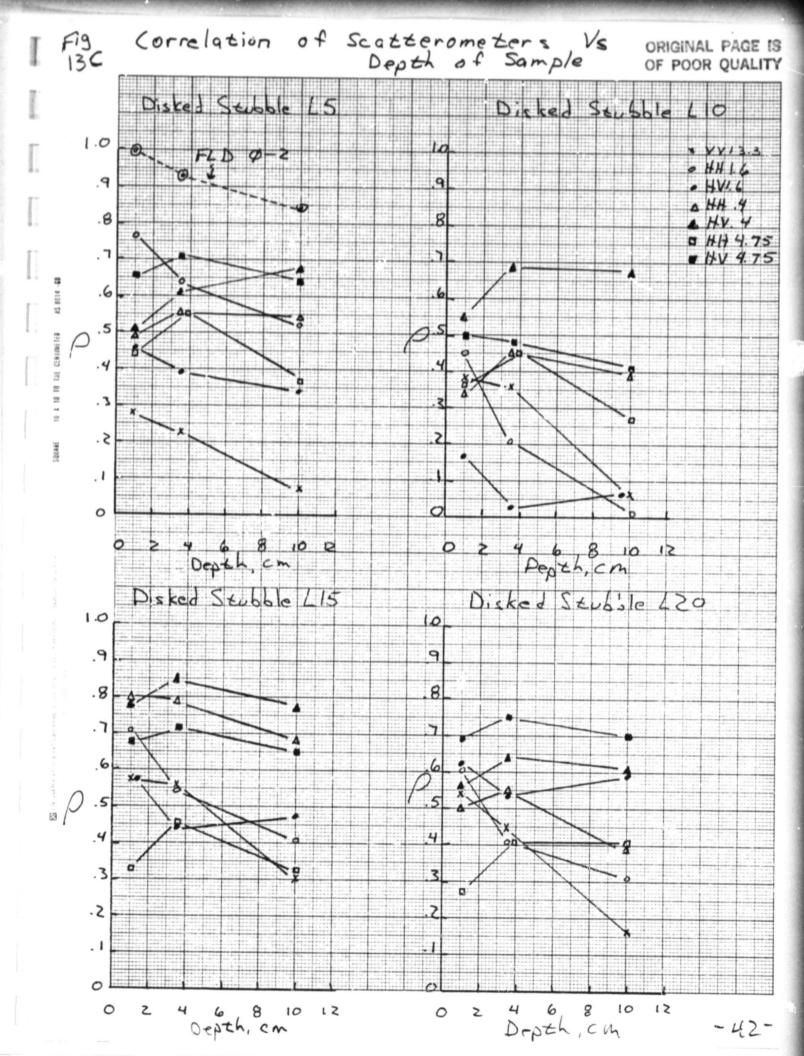
Depth, CM

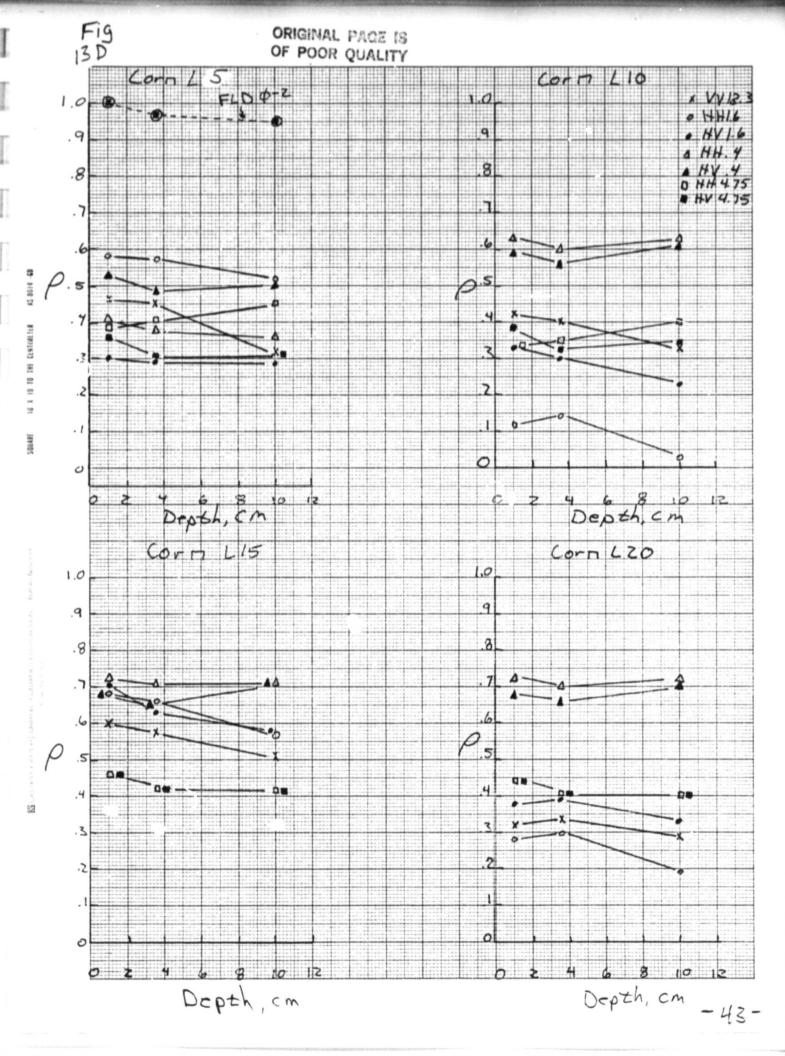
Depth, cm

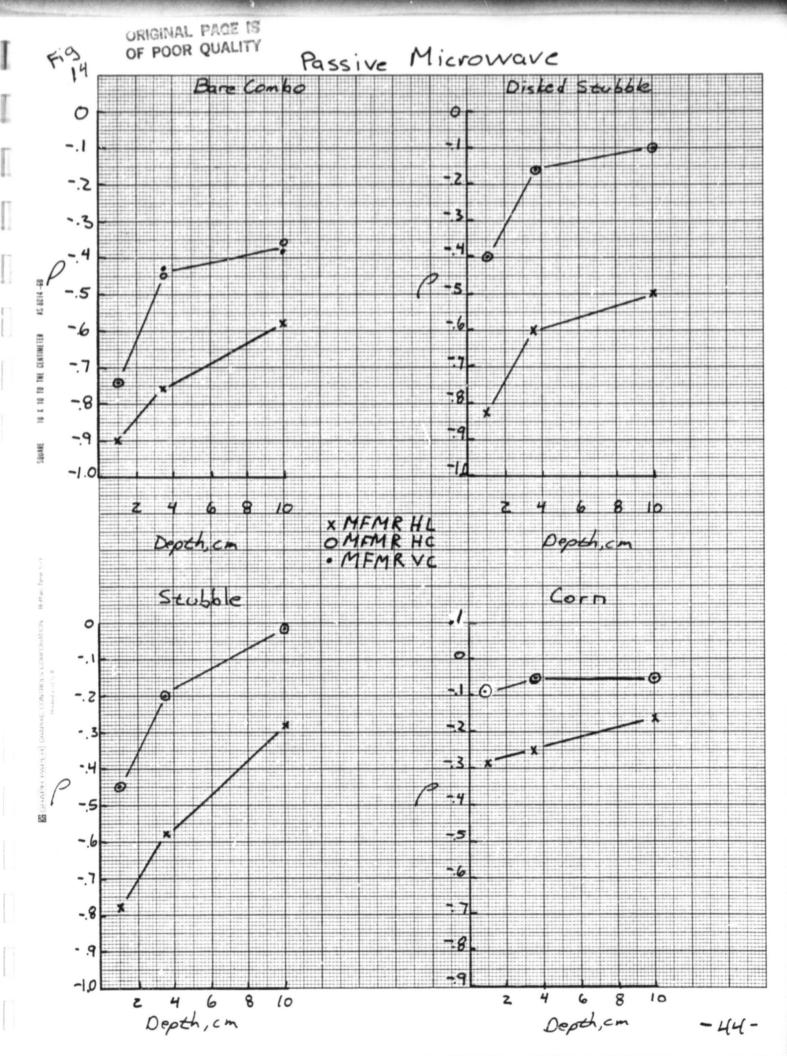
-37-











## 2.13 Single Variable Regressions

A comparison of the linear regressions with SMO2 and FLDO2 as the dependent variable parametric in cover types is shown in Figures 15 and 16. The scatterometer regressions are for look angles less than 25 degrees as the independent variable.

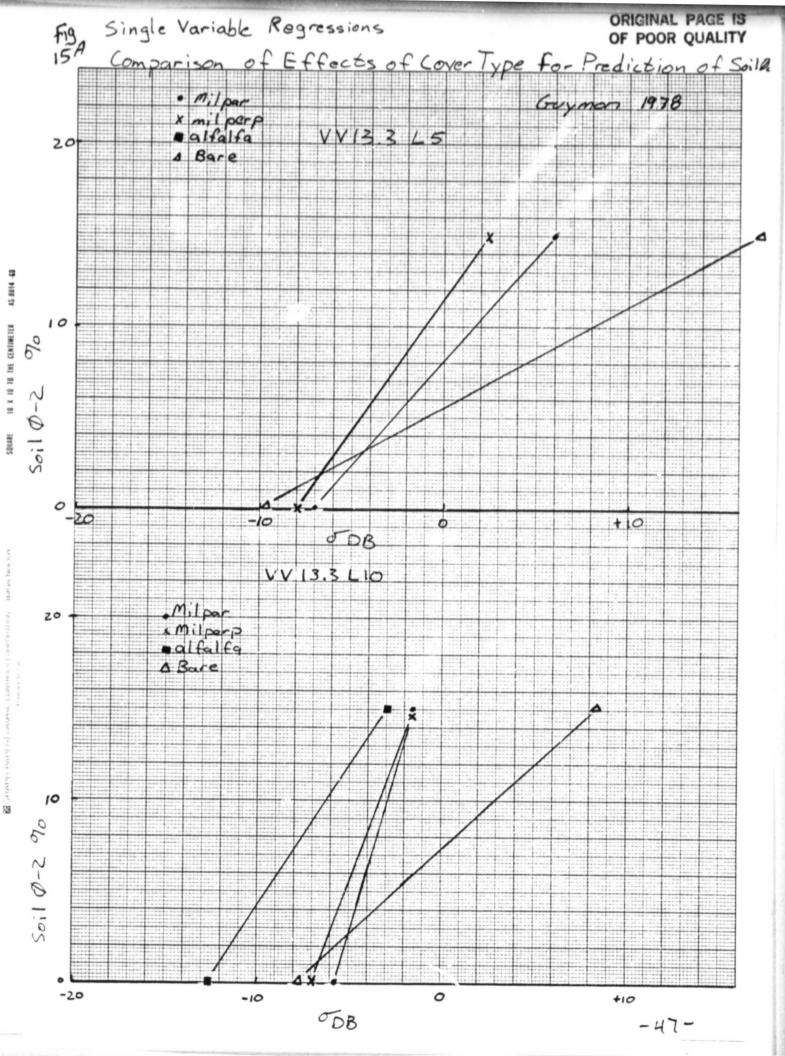
The standard error of estimate of SMO2 and FLDO2 for the scatterometers and passive microwave sensors are shown in Figures 17 and 18. Note that for the Guymon data the highest standard errors are recorded by the cross-polarized scatterometers and specifically for the alfalfa fields. The bare fields evidenced the lowest standard errors. For the Dalhart data the parallel-polarized scatterometers tend to follow their crosspolarized counterparts, especially in the higher look angles. The combined stubble fields tend to show the lower standard errors and corn the higher standard errors. A summary of the complete set of one independent variable regression constants showing effects of cover and look angle is summarized in Figures 19 and 20. Note the typical progressions up and down the line as the look angle is varied for each cover type. The Daihart data is particularly interesting in that the majority of cover types with the exception of corn, tend to parallel each other through the various look angles. The graphs also tend to lay close to a linear projection through the axis (Figure 20). This is true for all the Dalhart scatterometers and the passive microwave sensors excluding both the HH and HV 4.75 scatterometers in Figures 20F and 20G. The latter sensors are very unique in appearing to be relatively insensitive to a change in look angle.

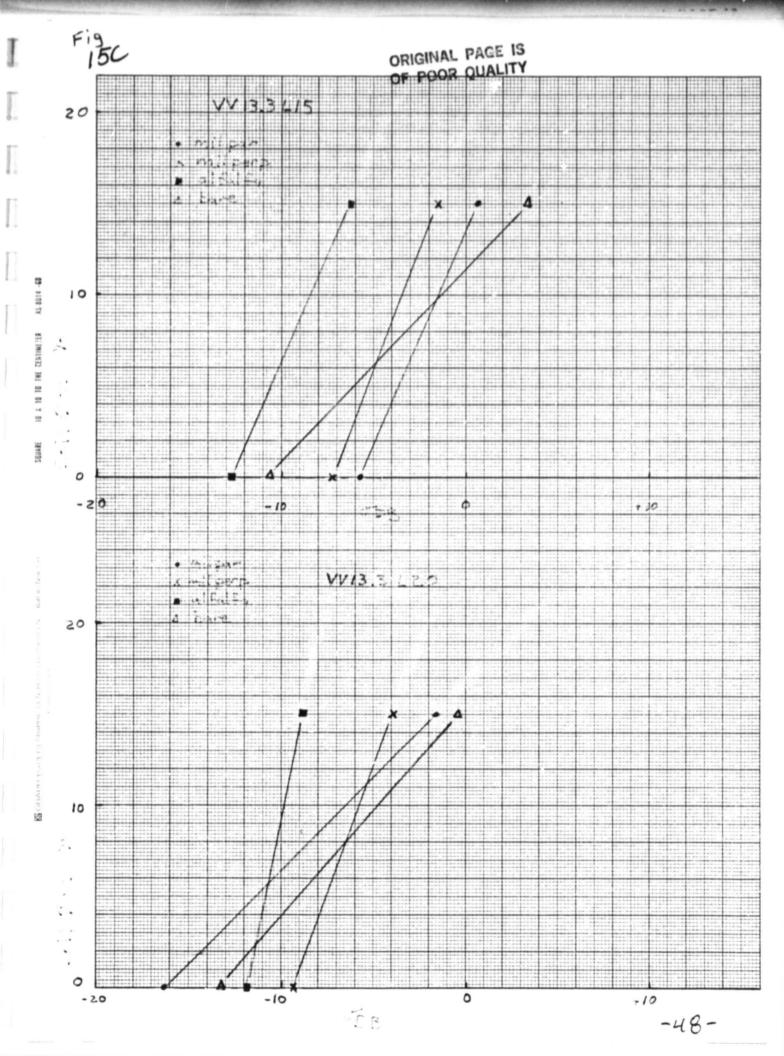
The calculated sensor responses necessary to 'predict' soil moisture values of SM/FLDO2 = 0%, 5%, and 15% are shown in Figures 21-24 (Guymon) and Figures 25-28 (Dalhart). Note that such calculation does not adjust

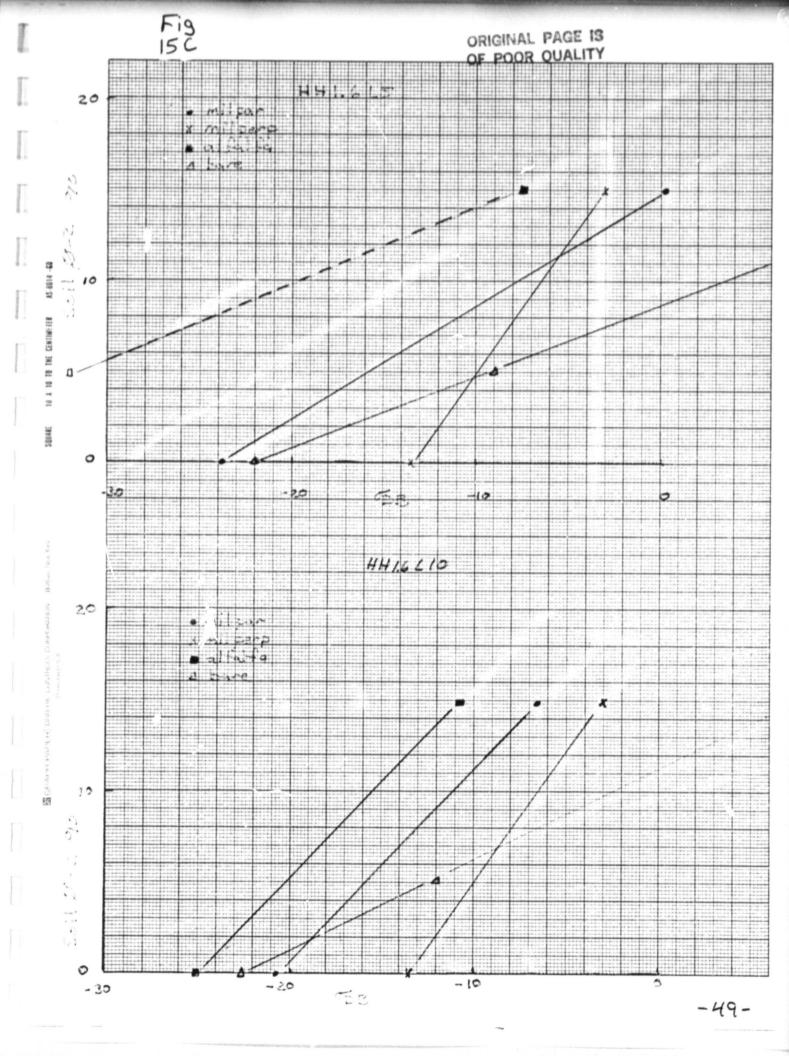
the soil moisture depth-profiles to conform to a common, single profile for each cover group. Thus direct comparisons to determine the effect of single variable changes are still confounded by such convolved and different effects. Notice that for the bare and milo par fields the required HV 1.6 scattering coefficients are within about 1 dB. but in general they both fluctuate independently of the other cover types, moisture percentages, and sensors. The other covers, alfalfa and milo perp., act independently by sensor, however, they remain relatively constant throughout the range of moisture percentages. The required HV 4.75 scatterometer responses appear to be the most similar to each other and consistent with varying look angle as the effect of each cover in Guymon data is examined.

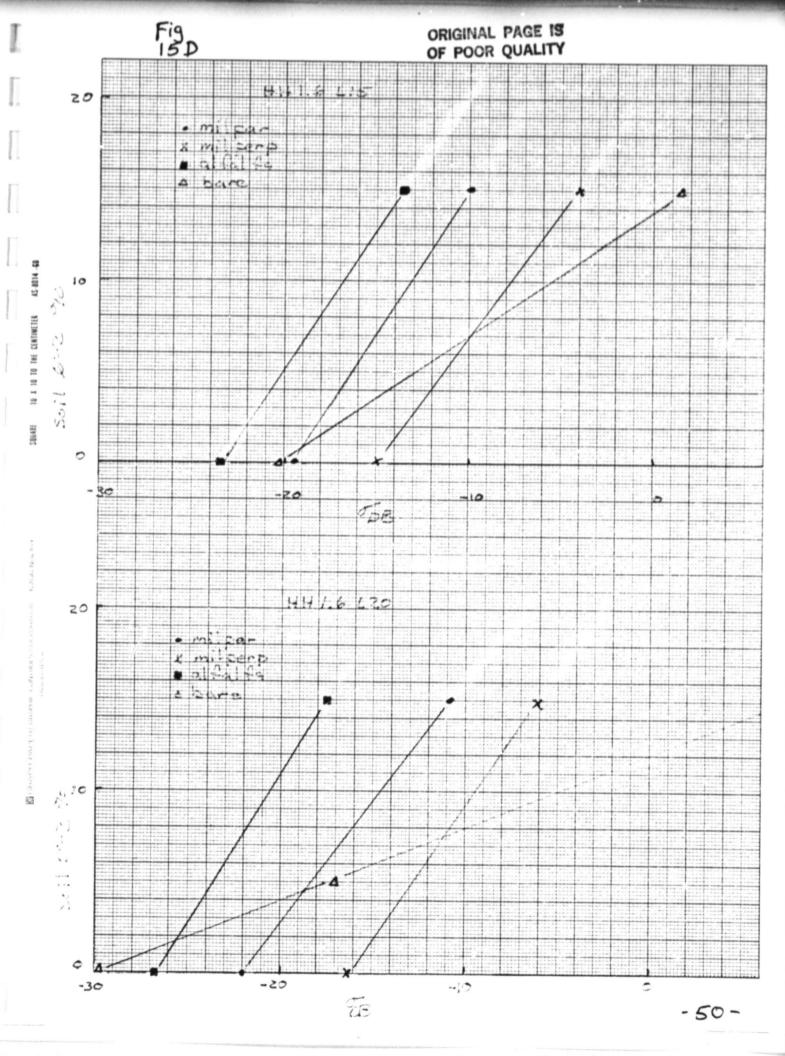
The Dalhart data analysis of the corn fields (Figures 25A-28) shows the effects of possibly, the 'psuedo' coherent backscatter caused by the vegetation. This is also evidenced in the 'oscillatory' nature of the variable trajectories (in factor space) for the 1.6 Ghz HH and HV sensors (see Figure 37). In sharp contrast the 4.75 Ghz HH and HV sensors remain in a relatively constant (factor space) position.

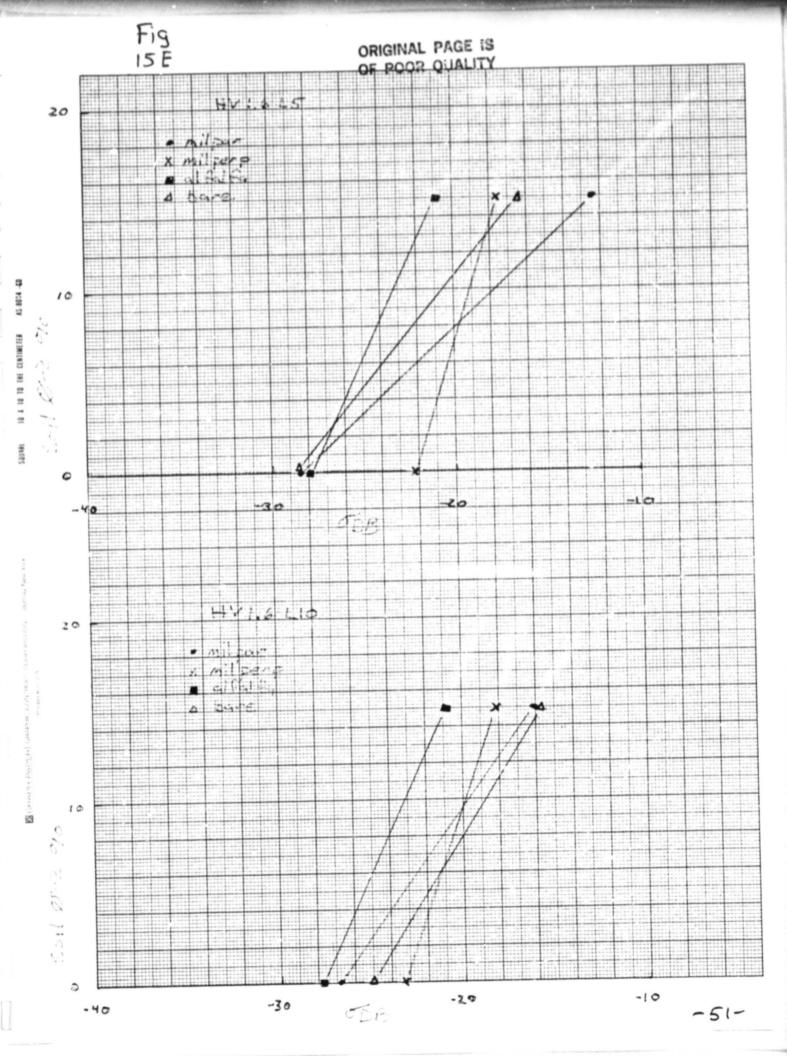
Note particularly the nature of the 'required responses' to predict a given soil moisture vis a vis the curves for the other, less vegetated covers.

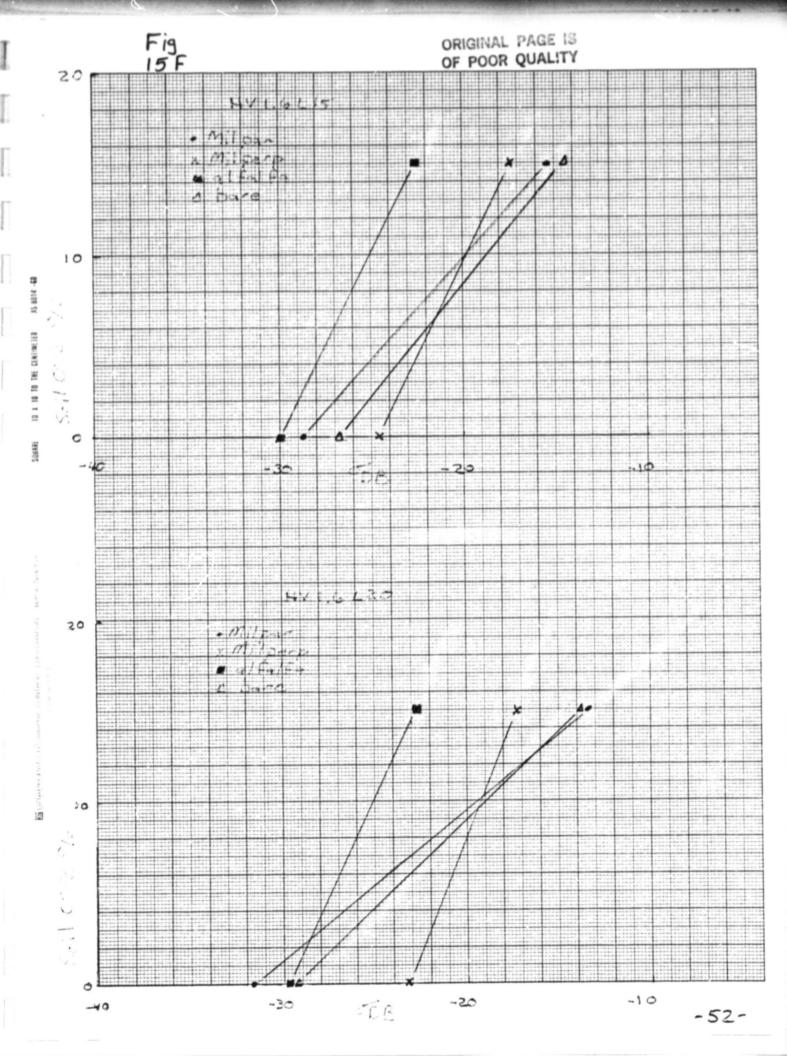


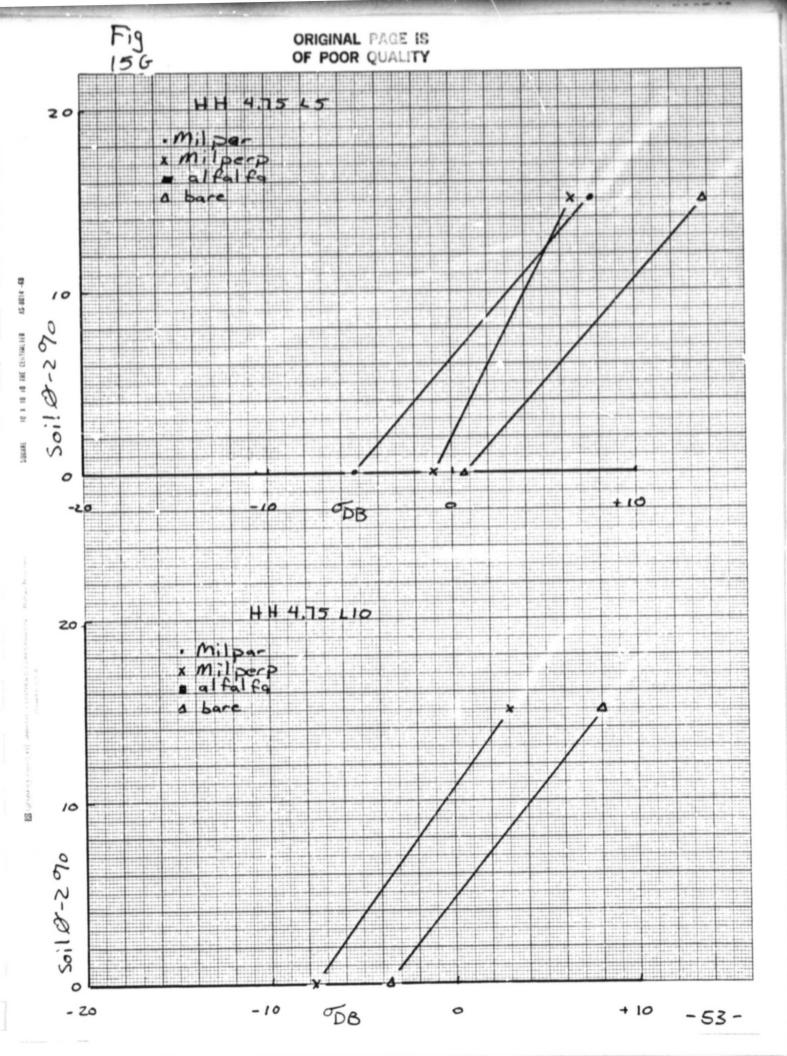


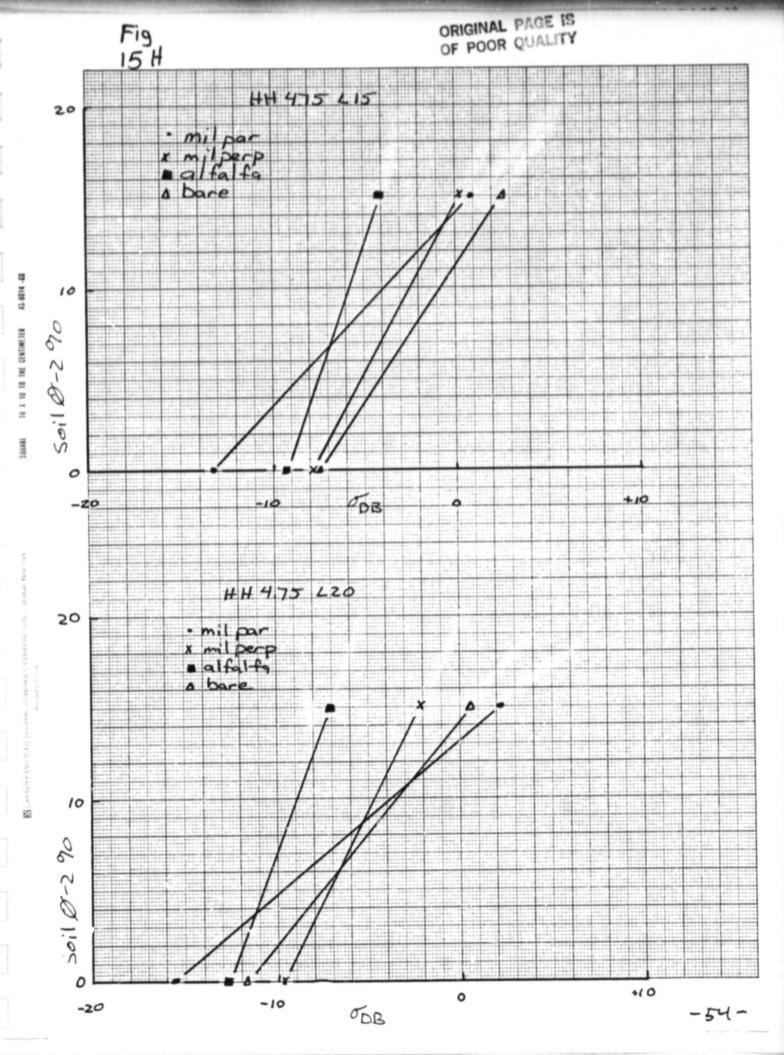


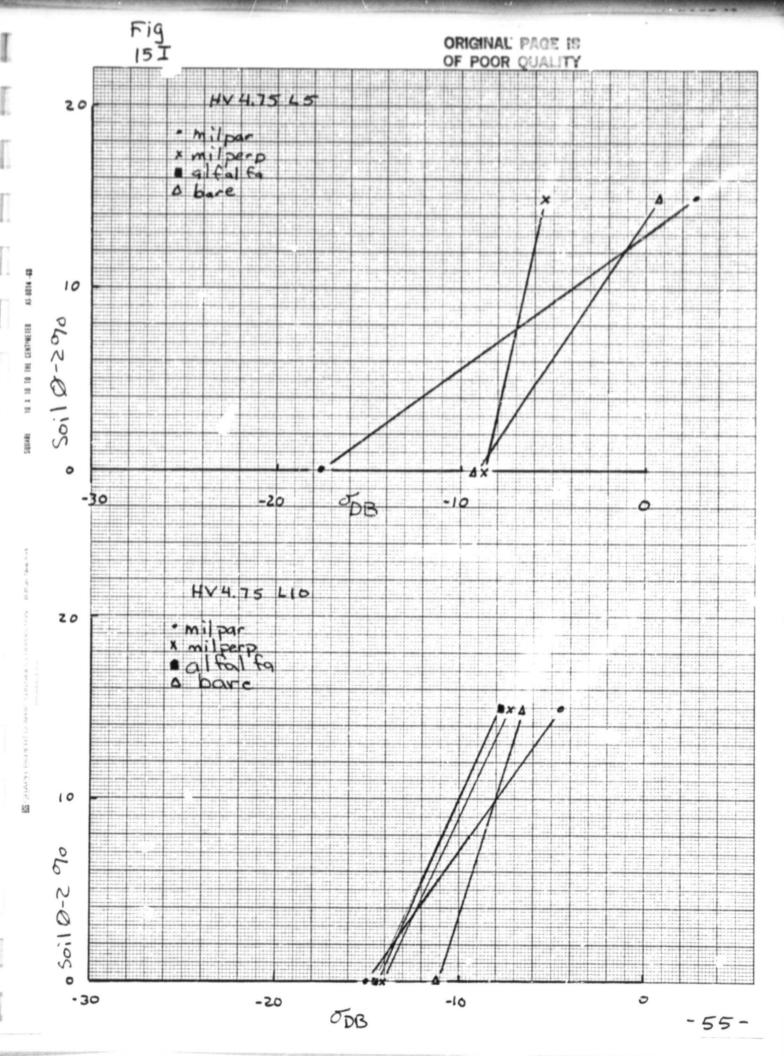


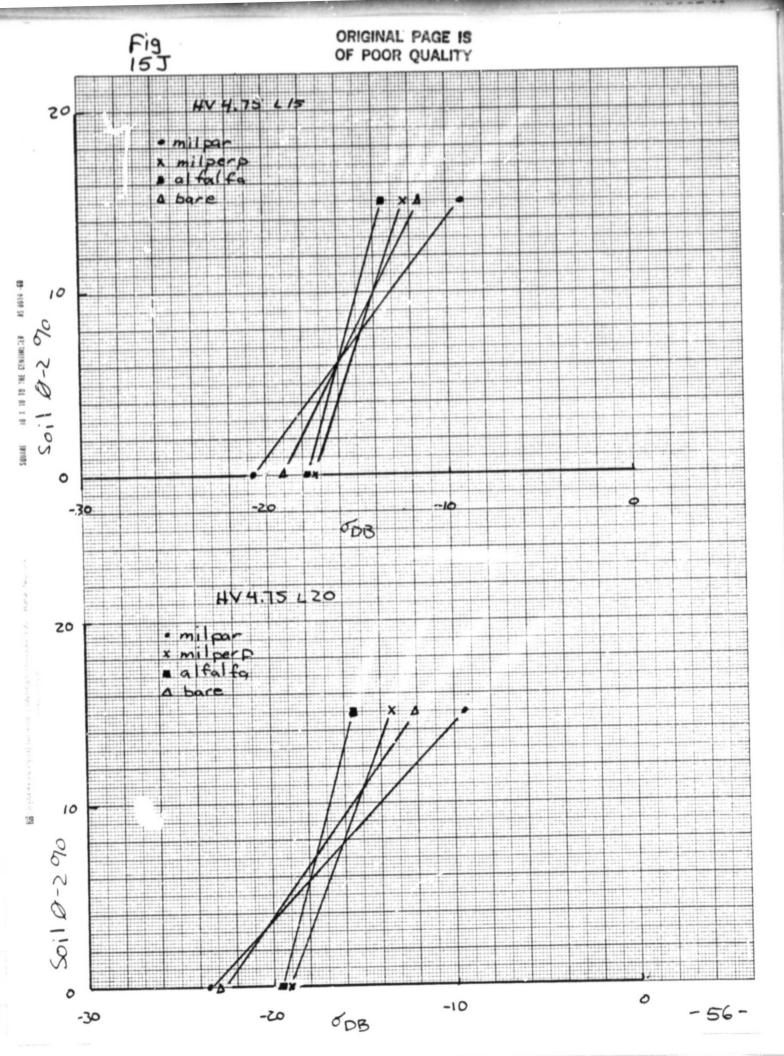


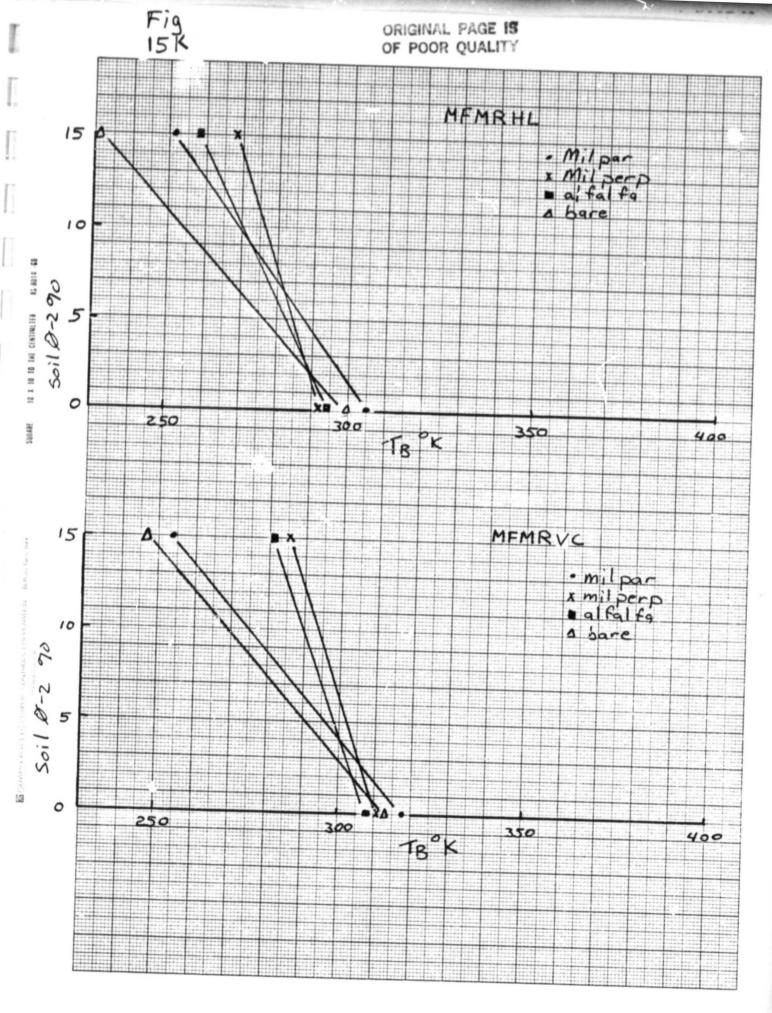




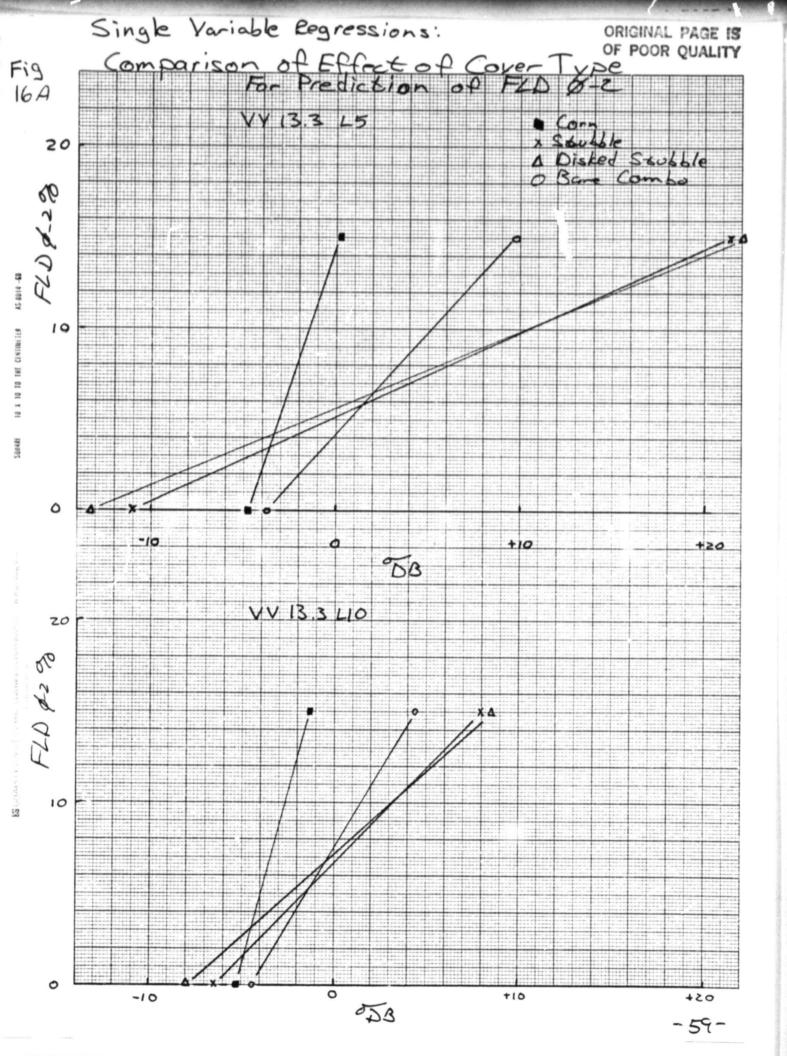


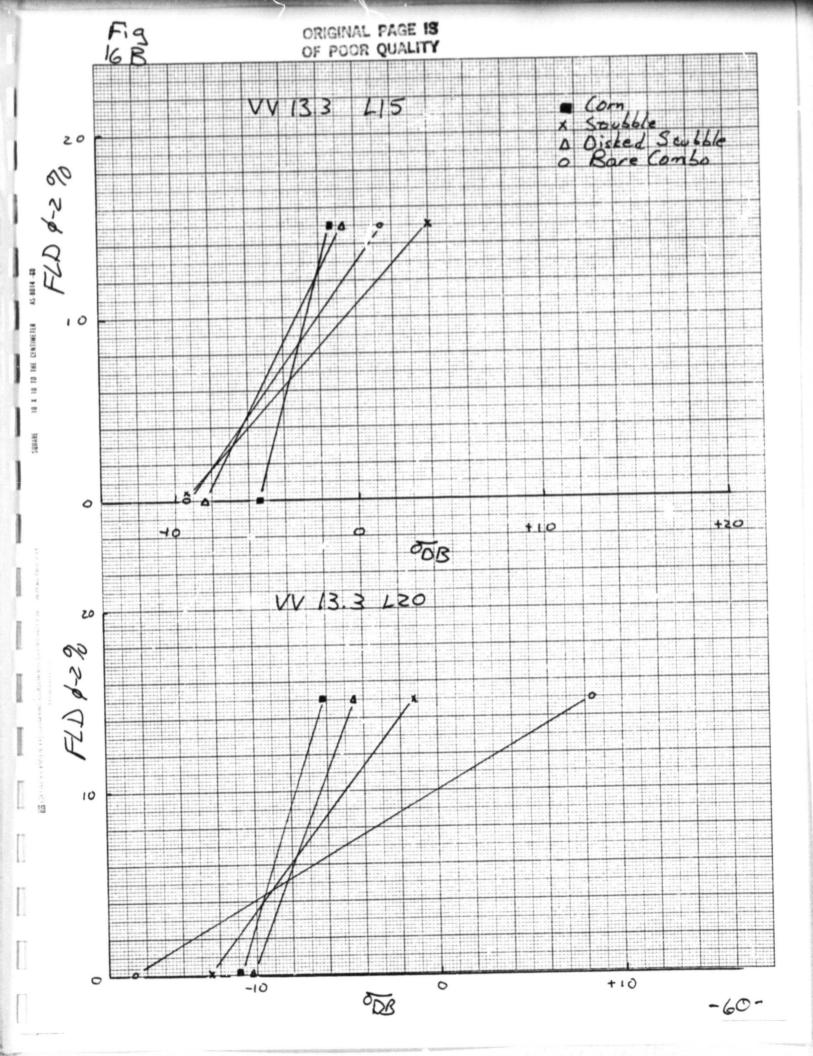


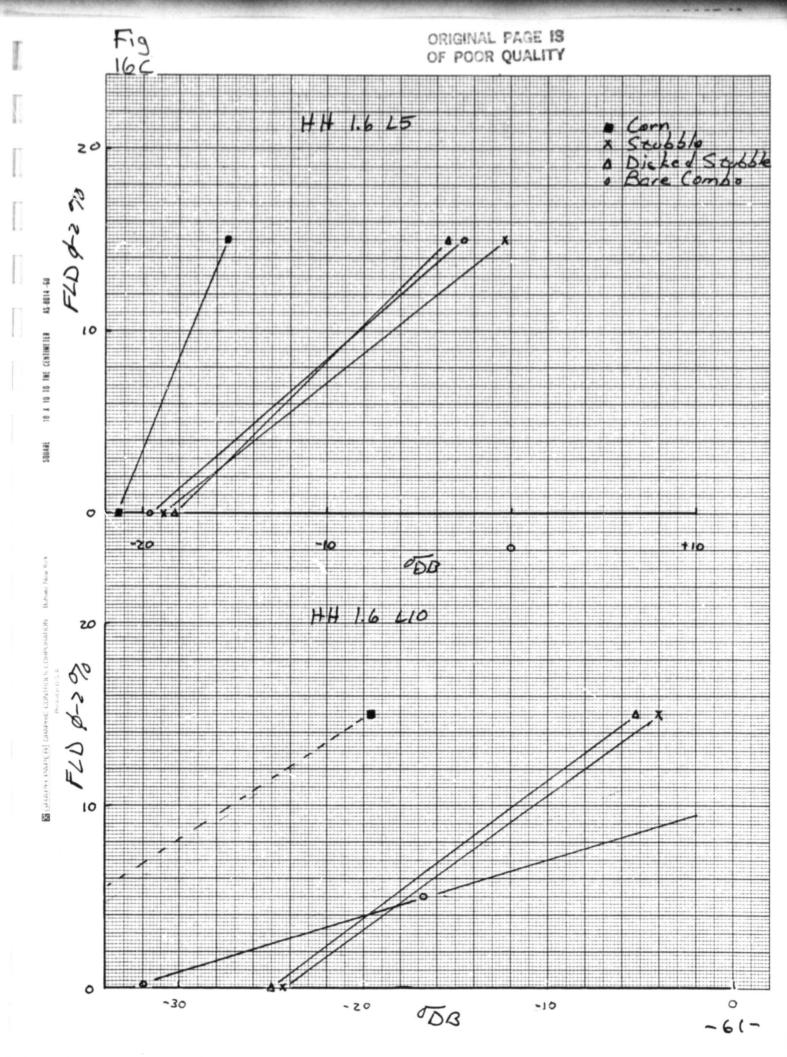


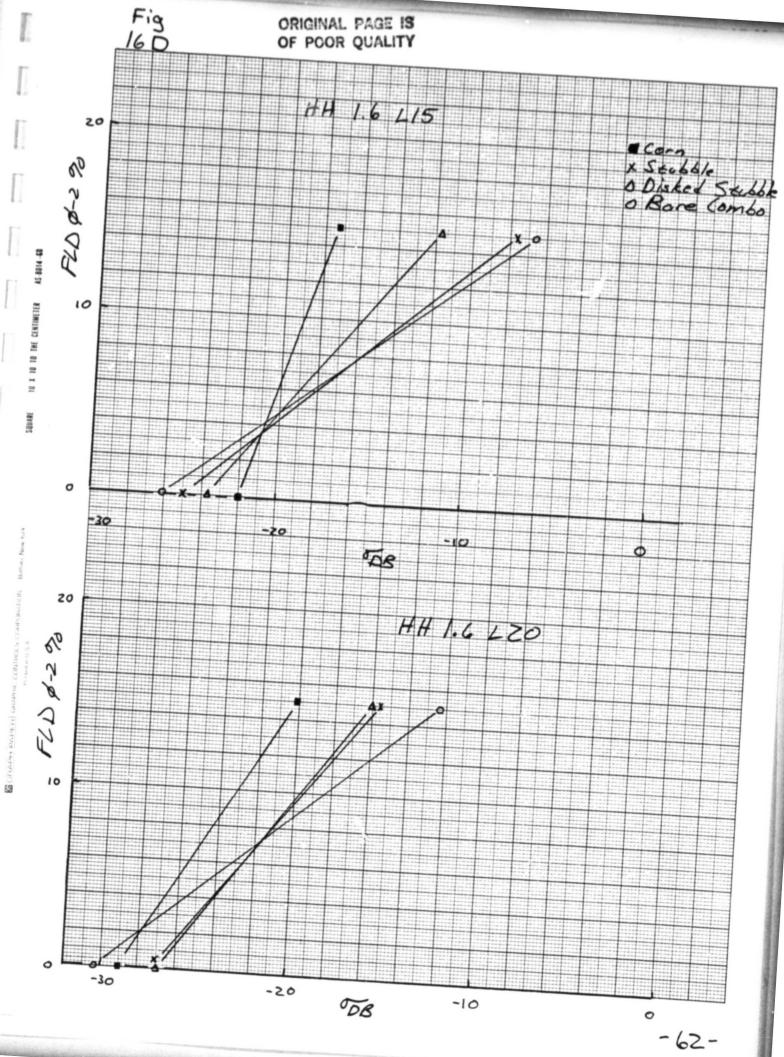


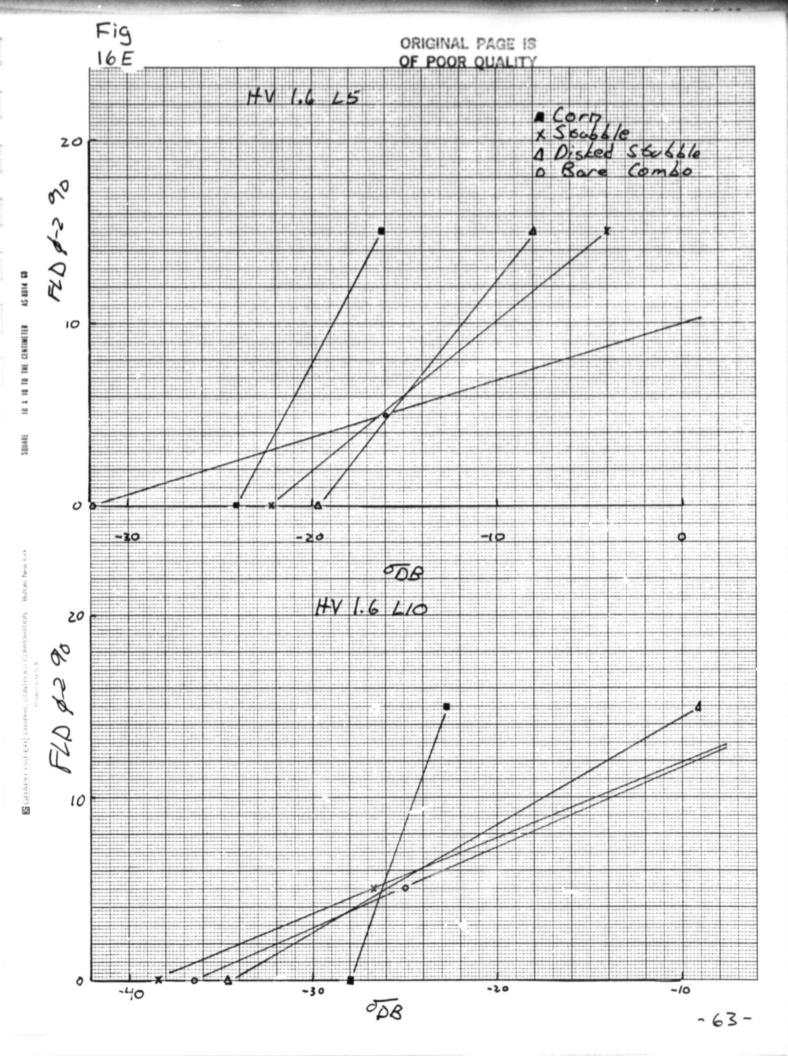
10 X 10 10 THE CENTINETER AS 8014 -CD

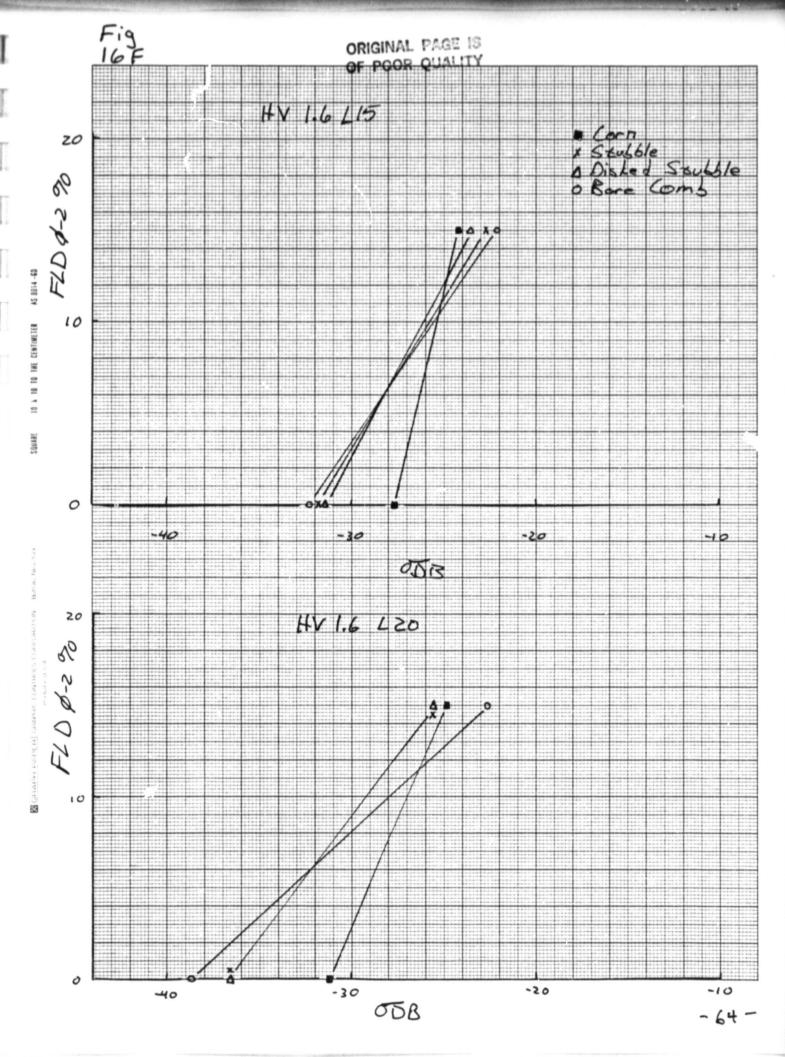


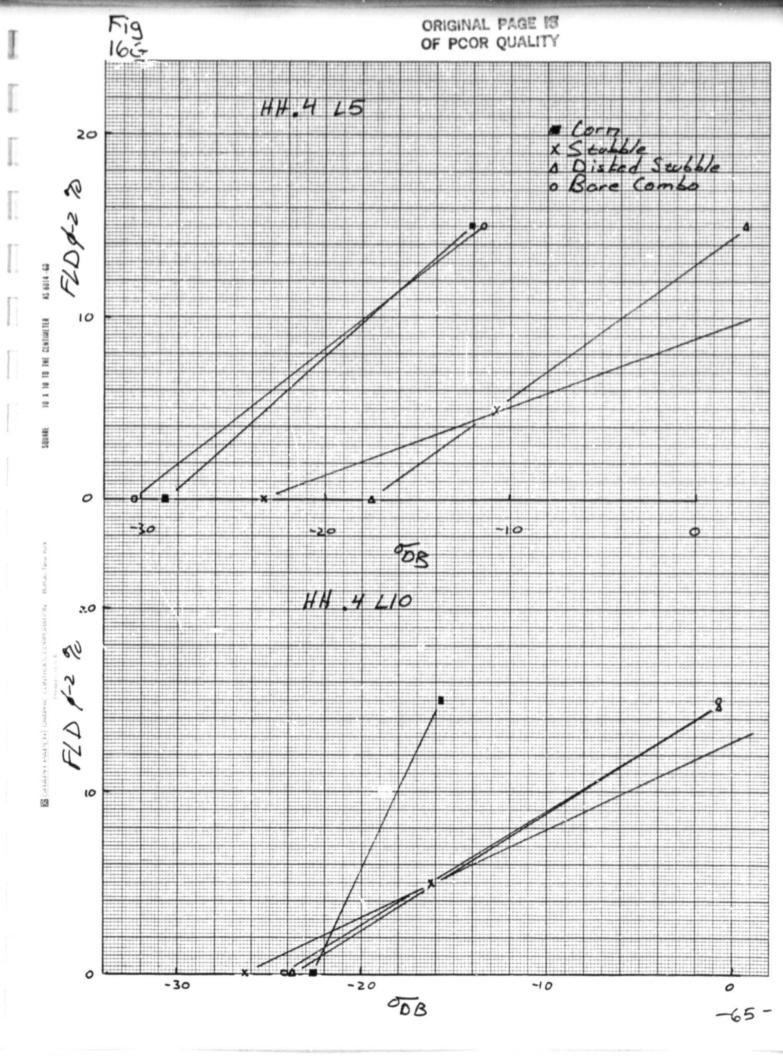


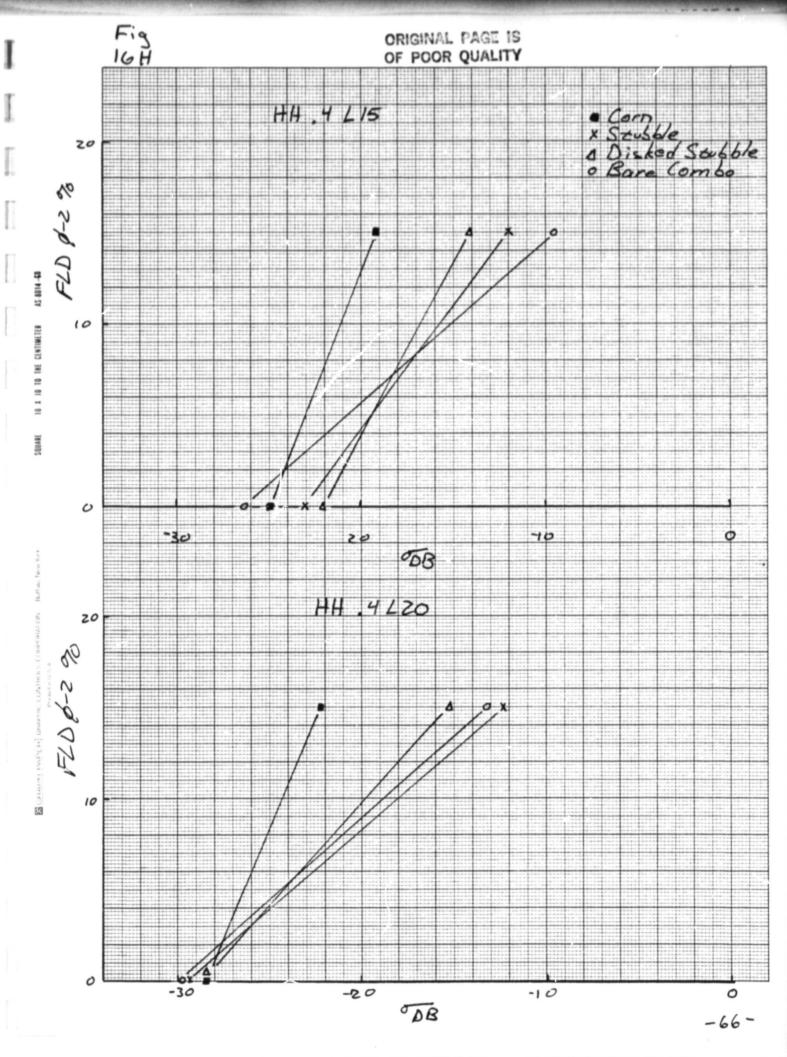


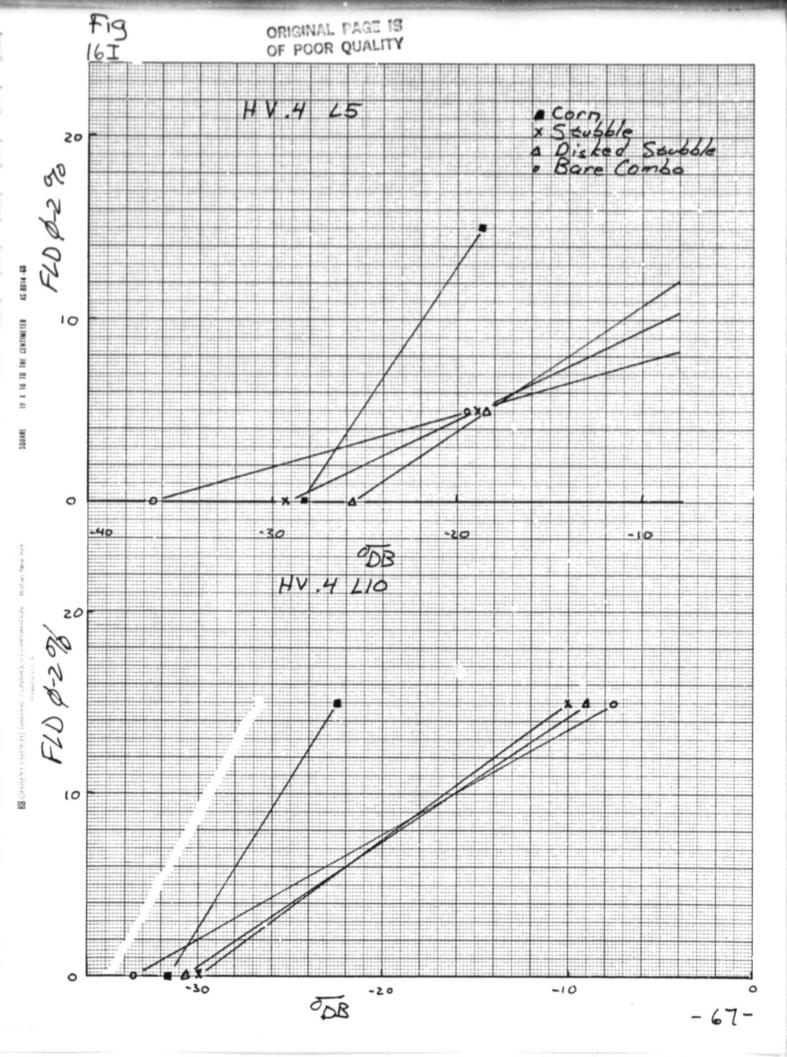


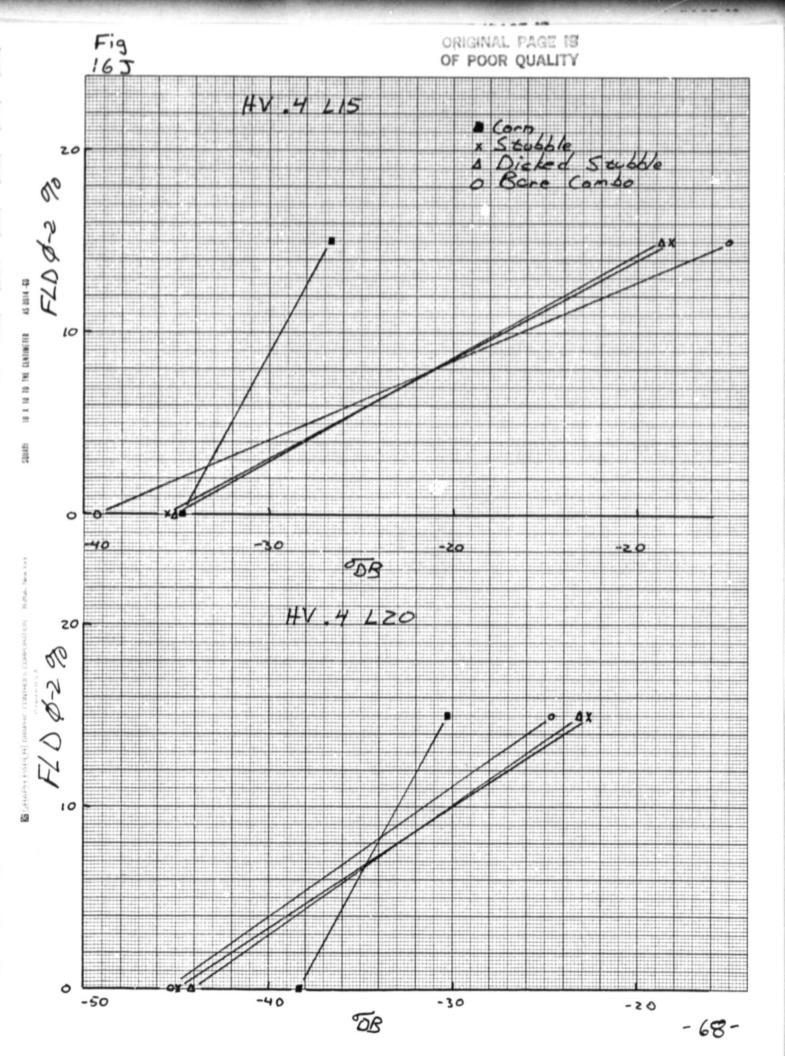


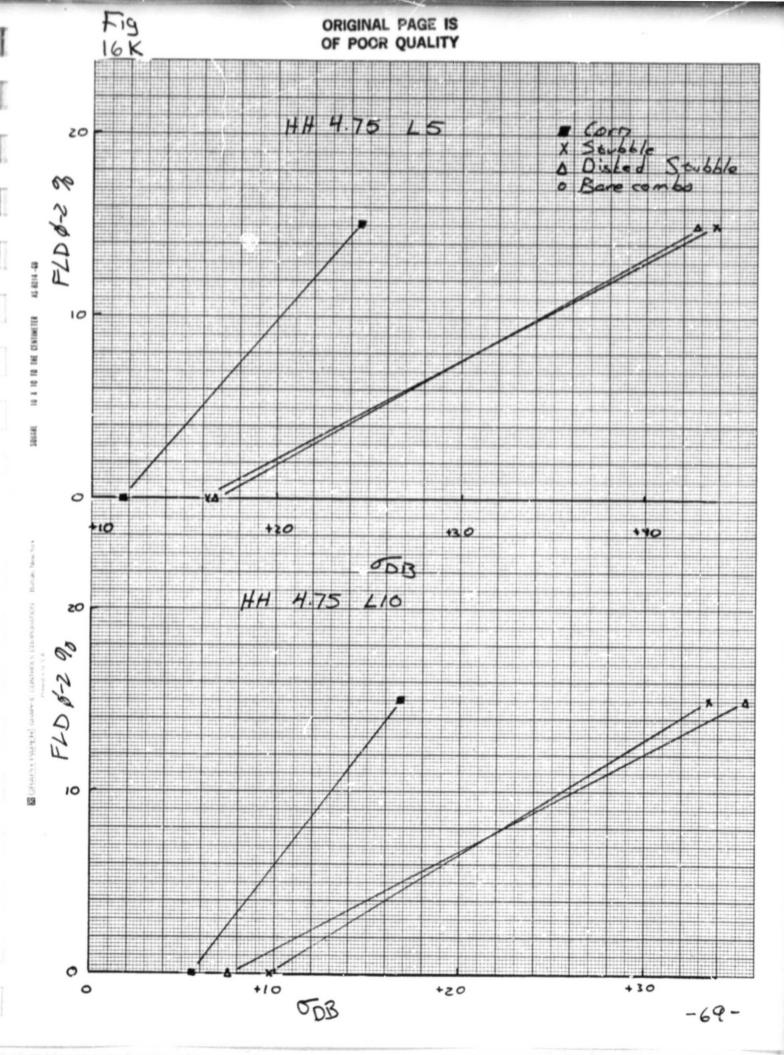


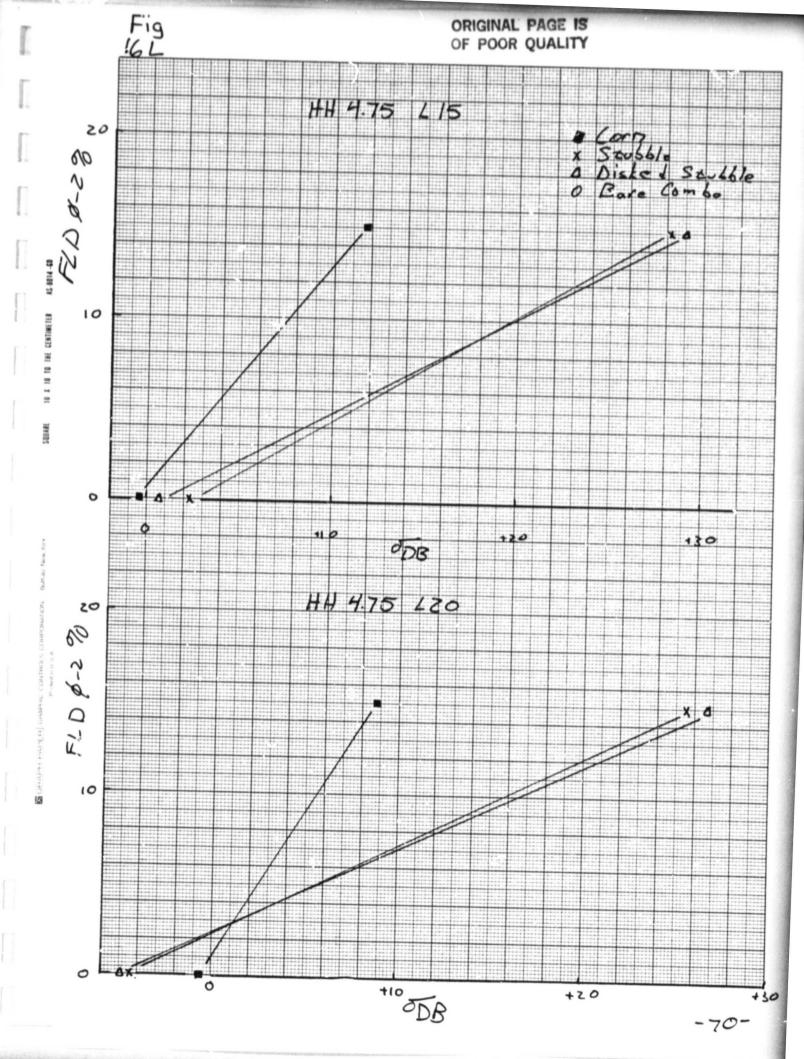


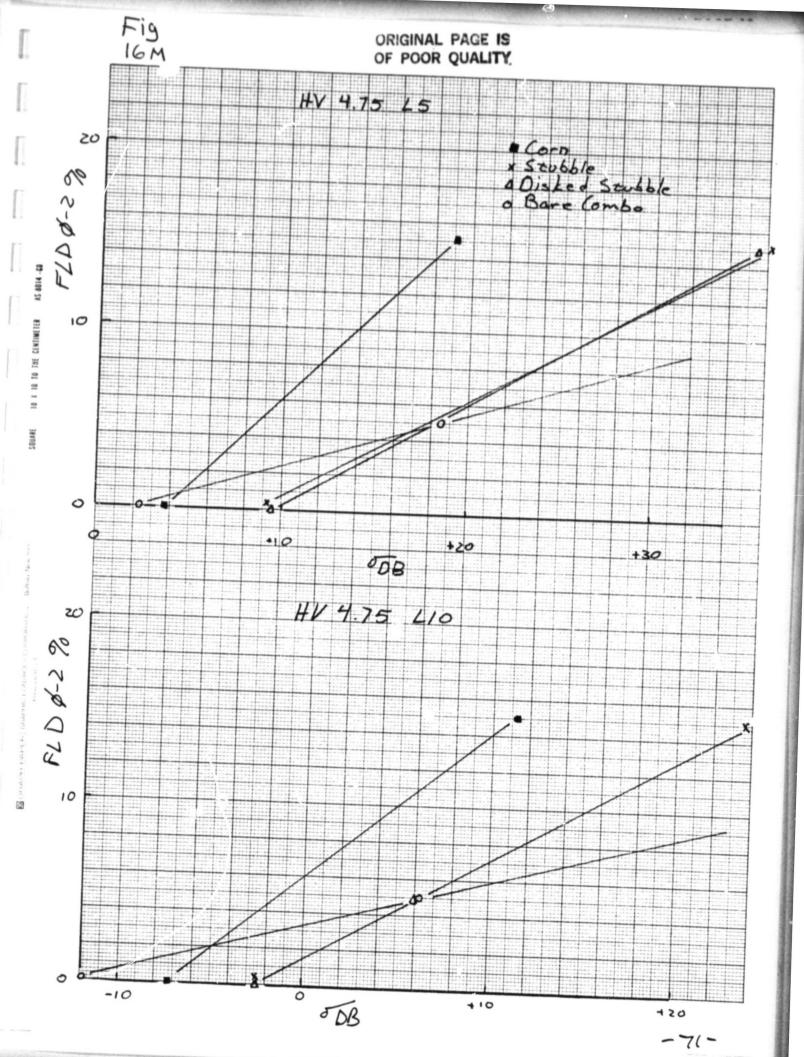


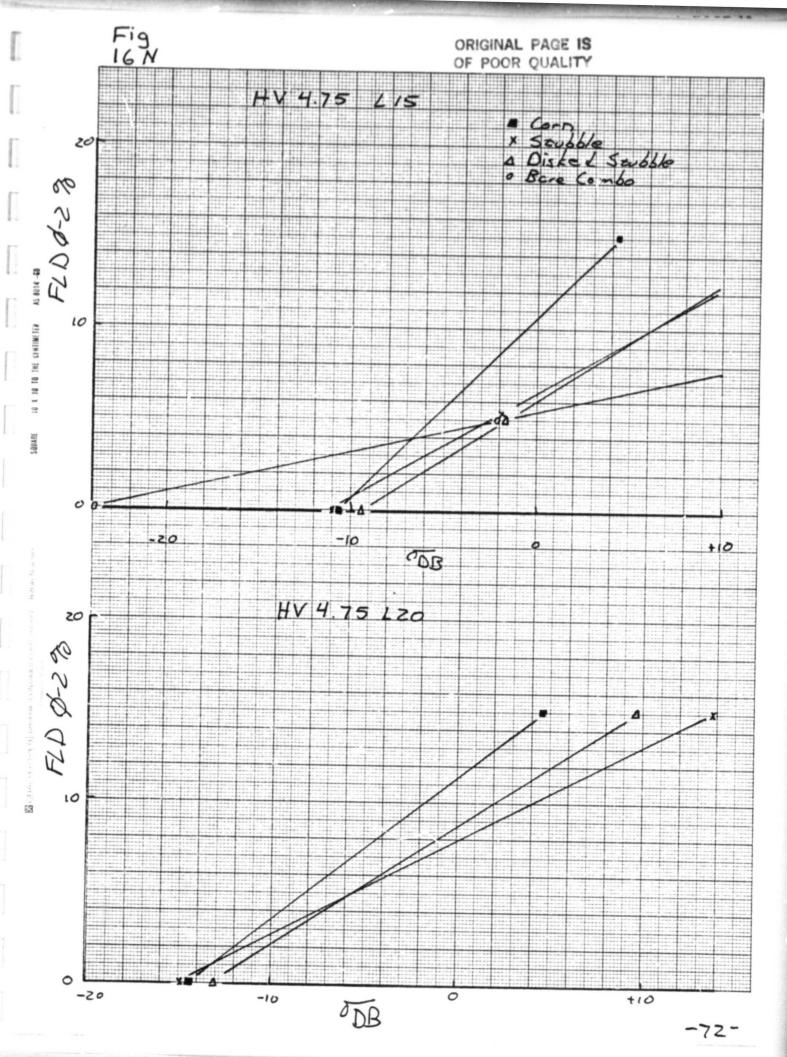


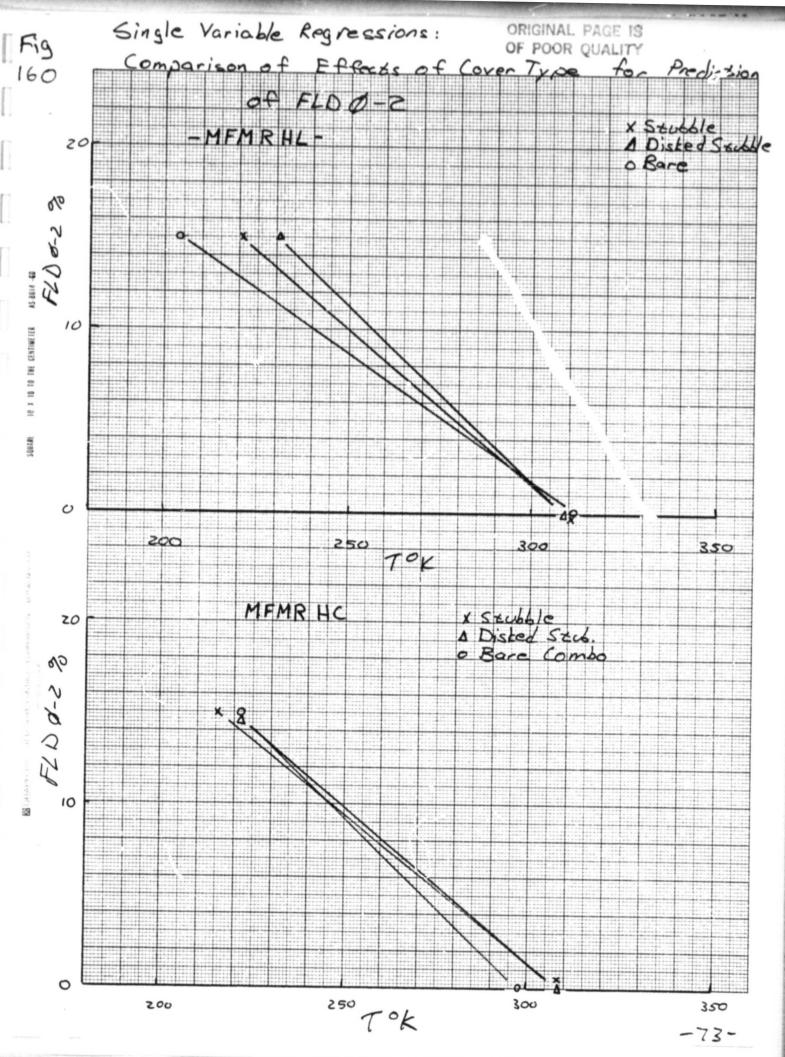


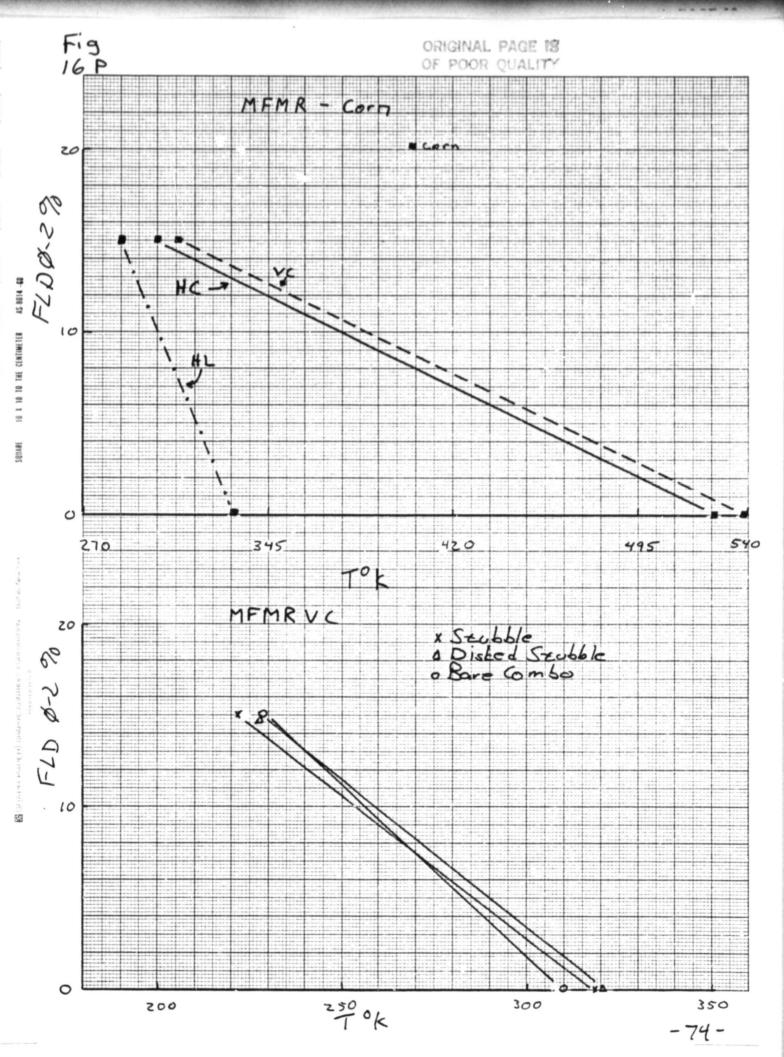


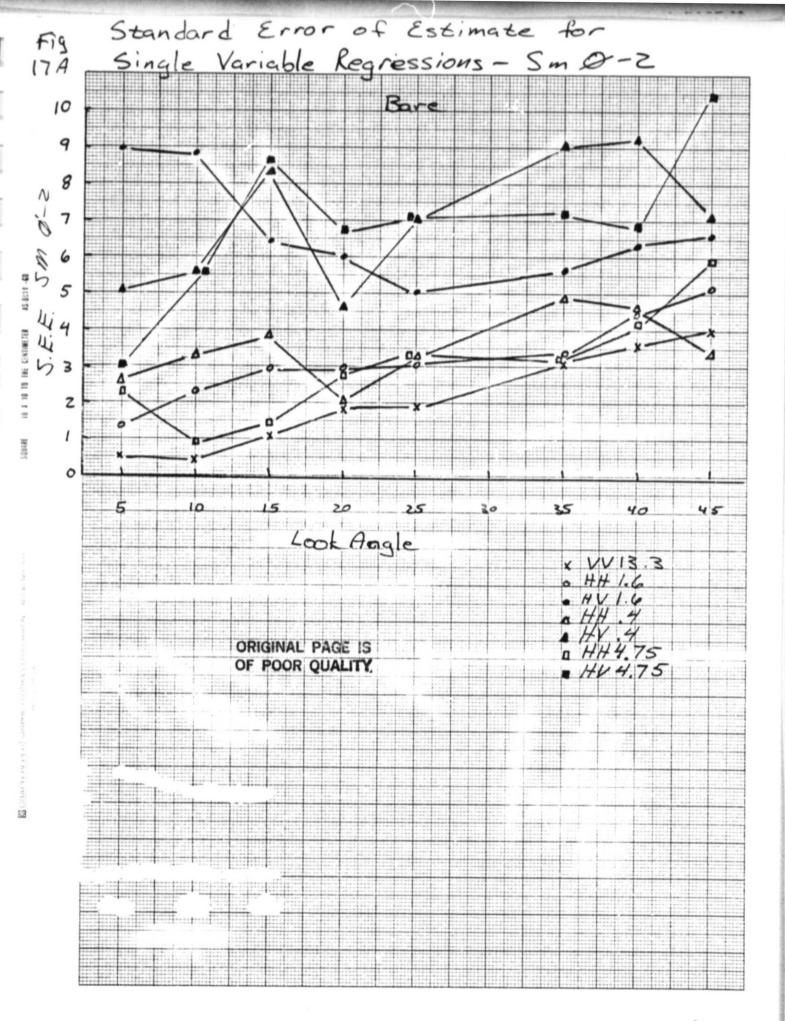


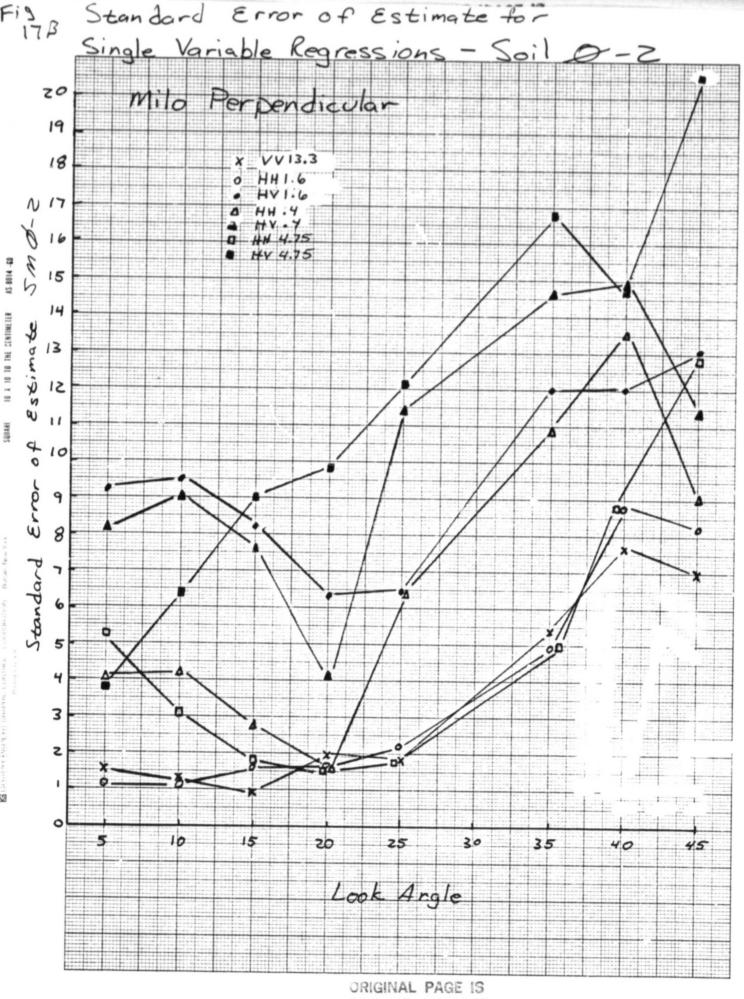




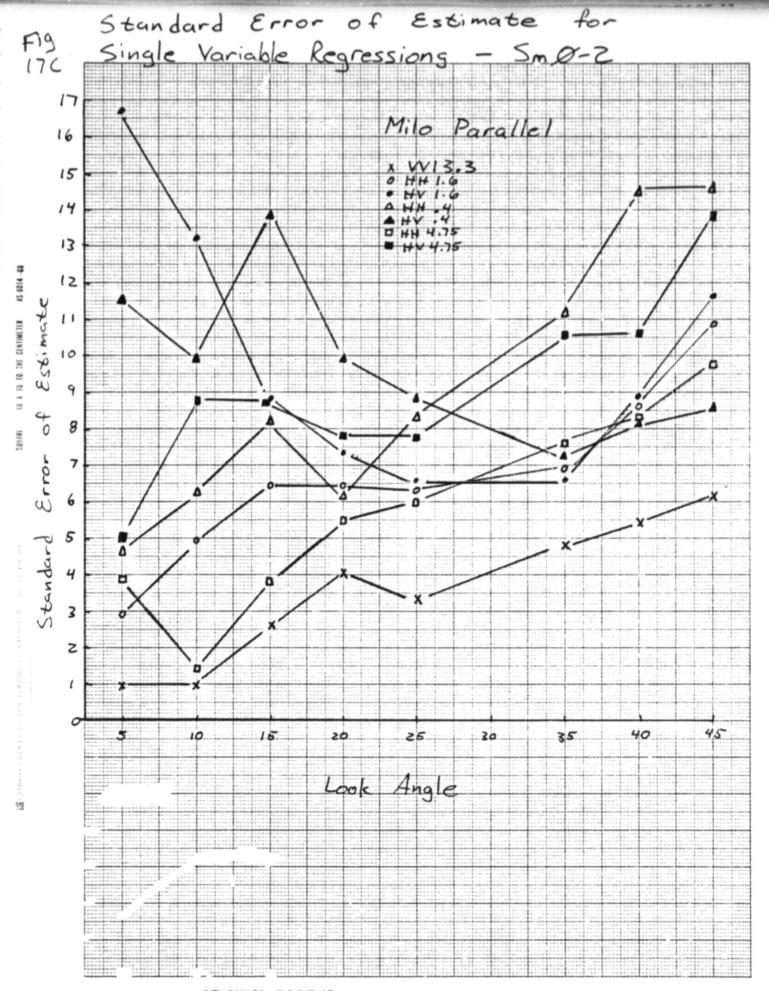


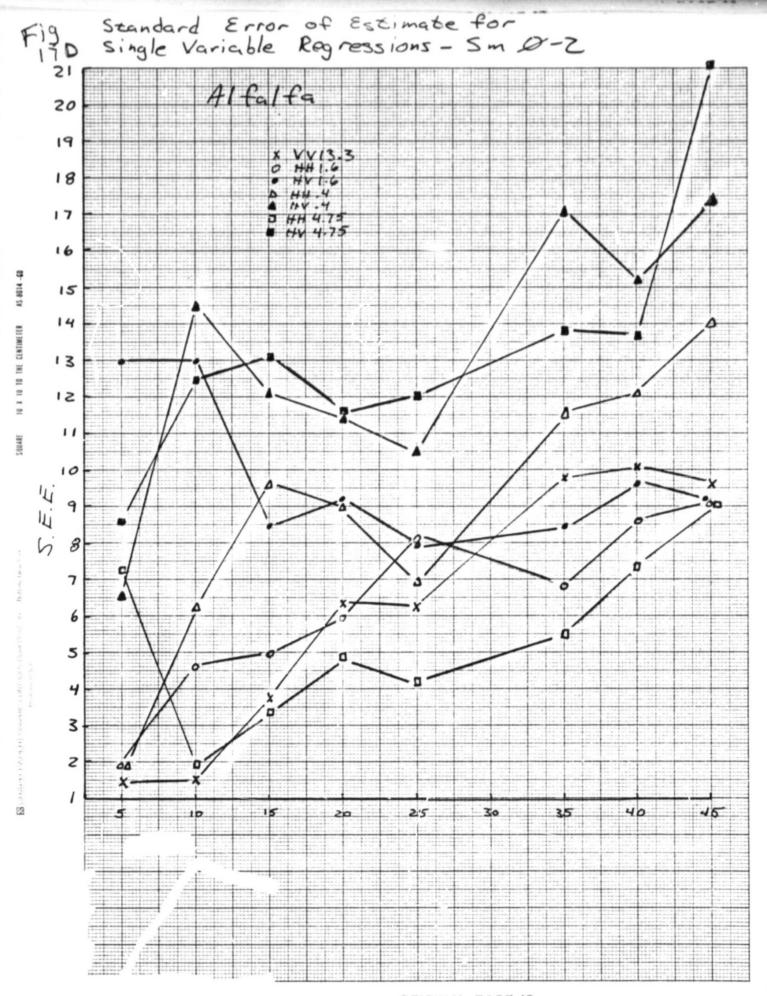


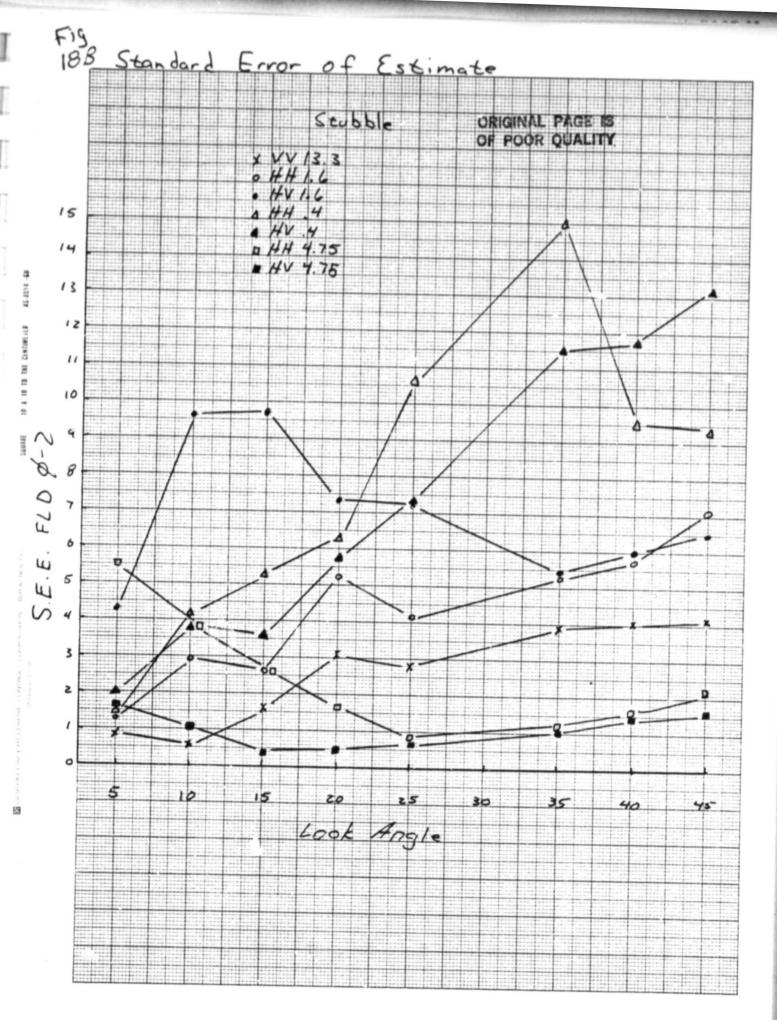


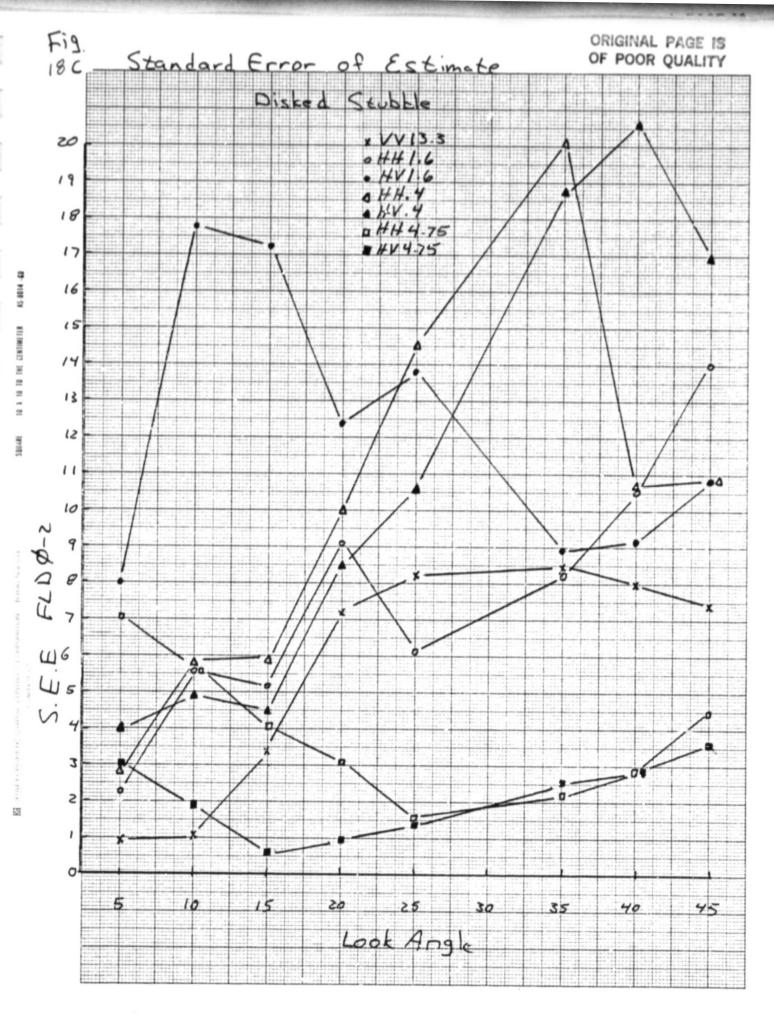


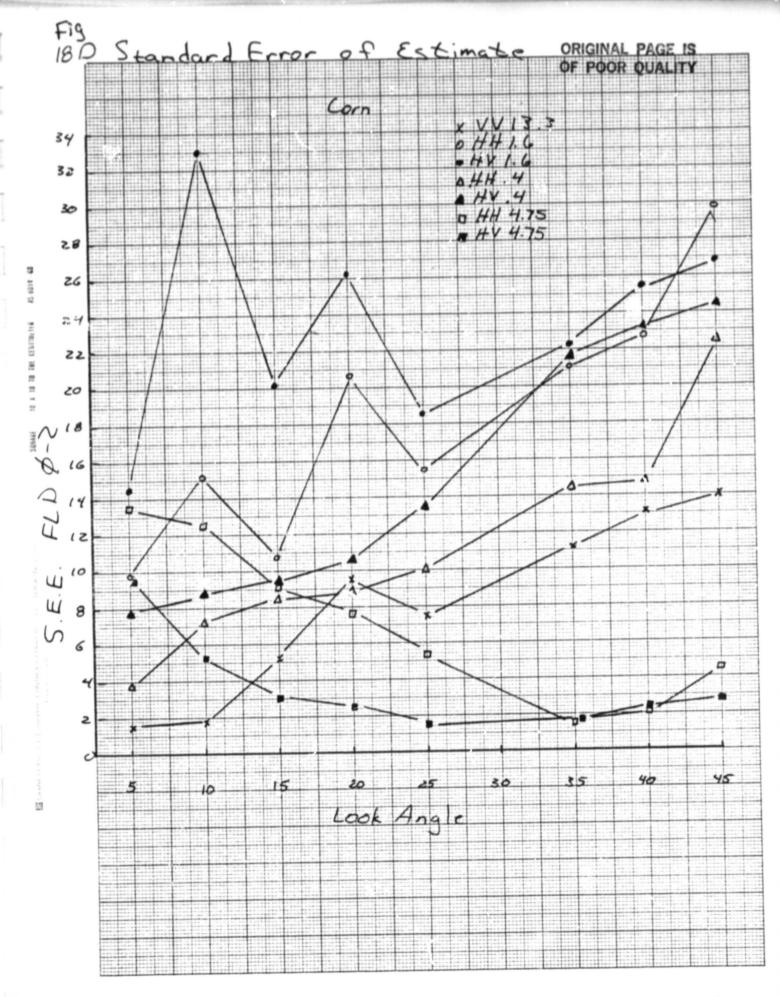
OF POOR QUALITY

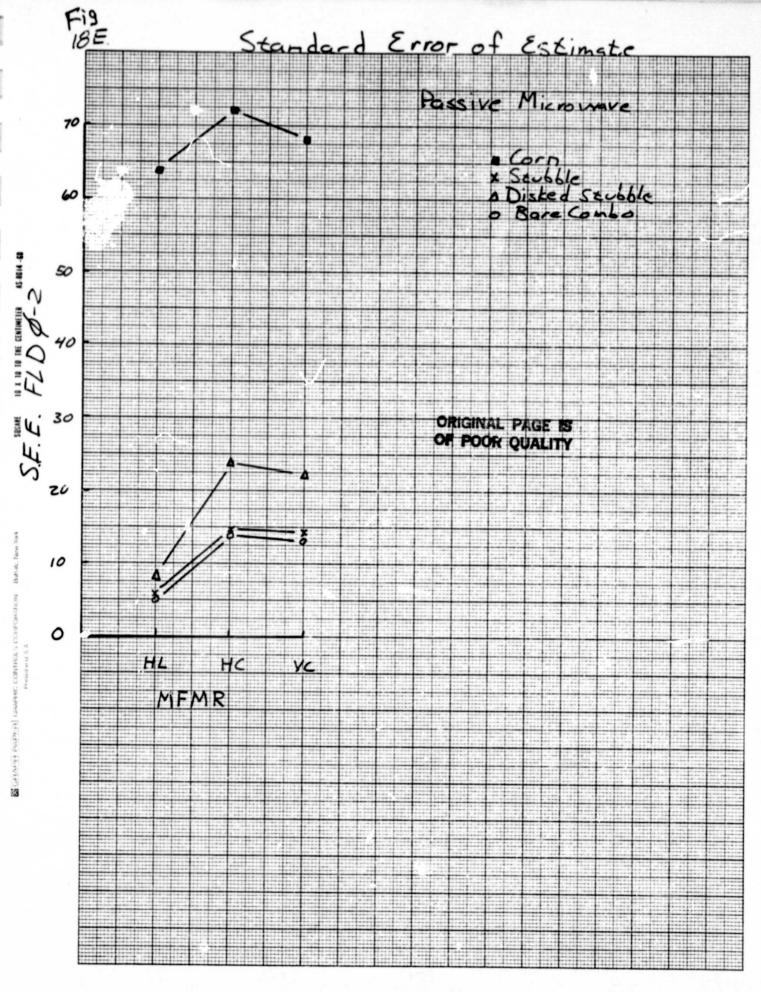






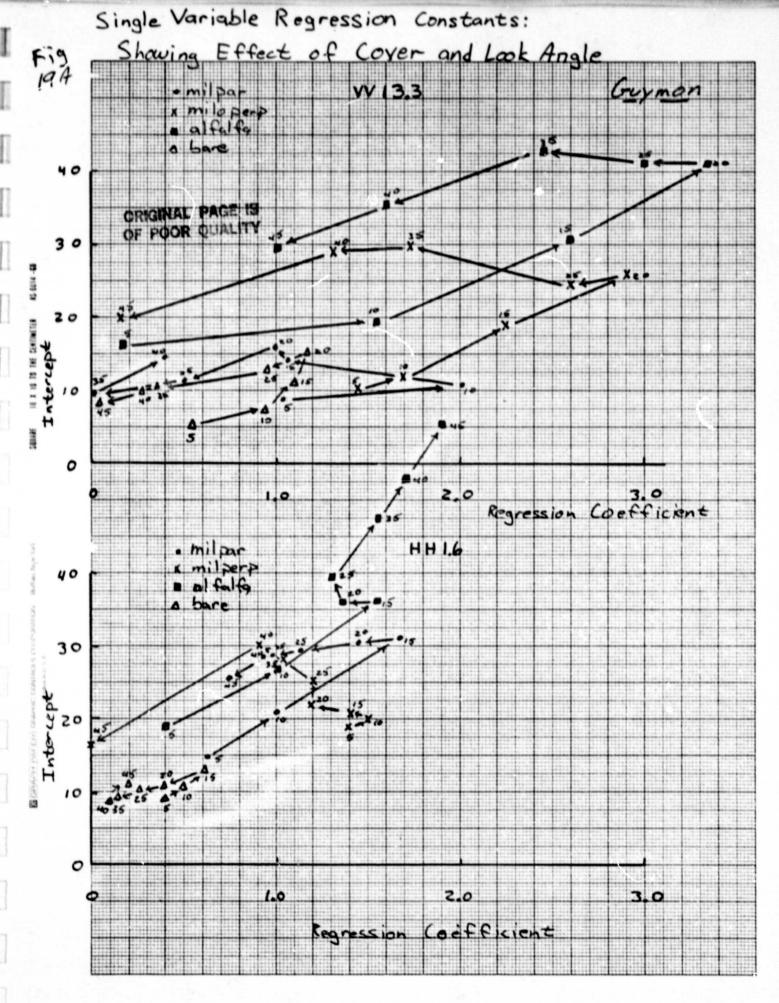


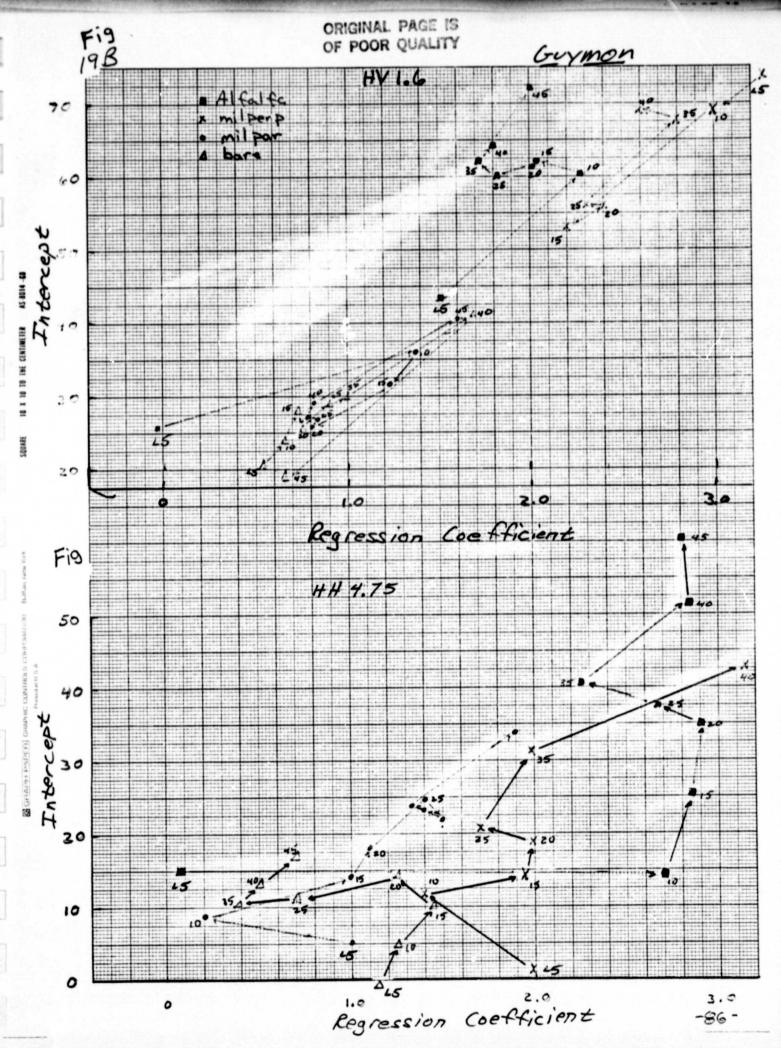


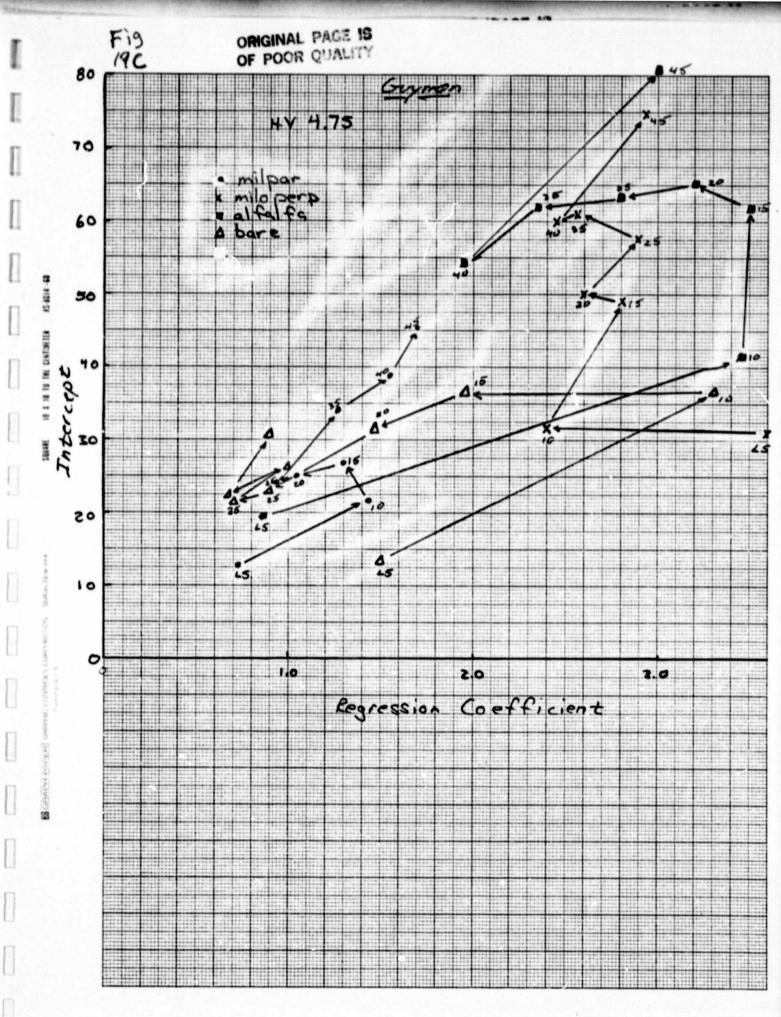


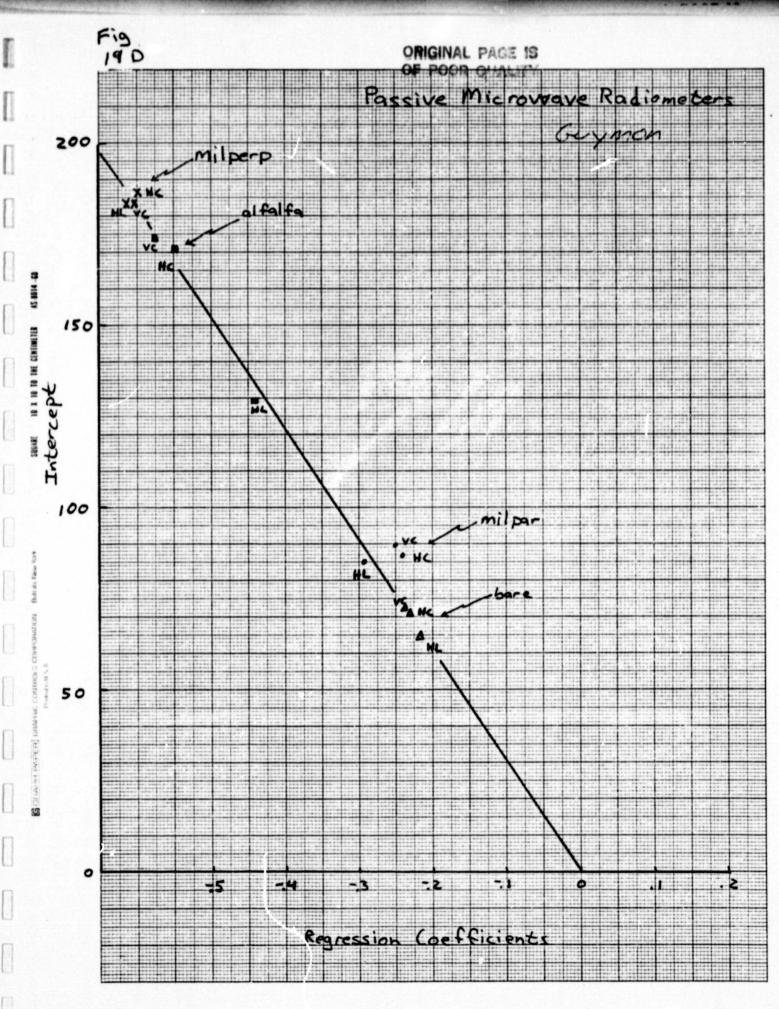
C-7

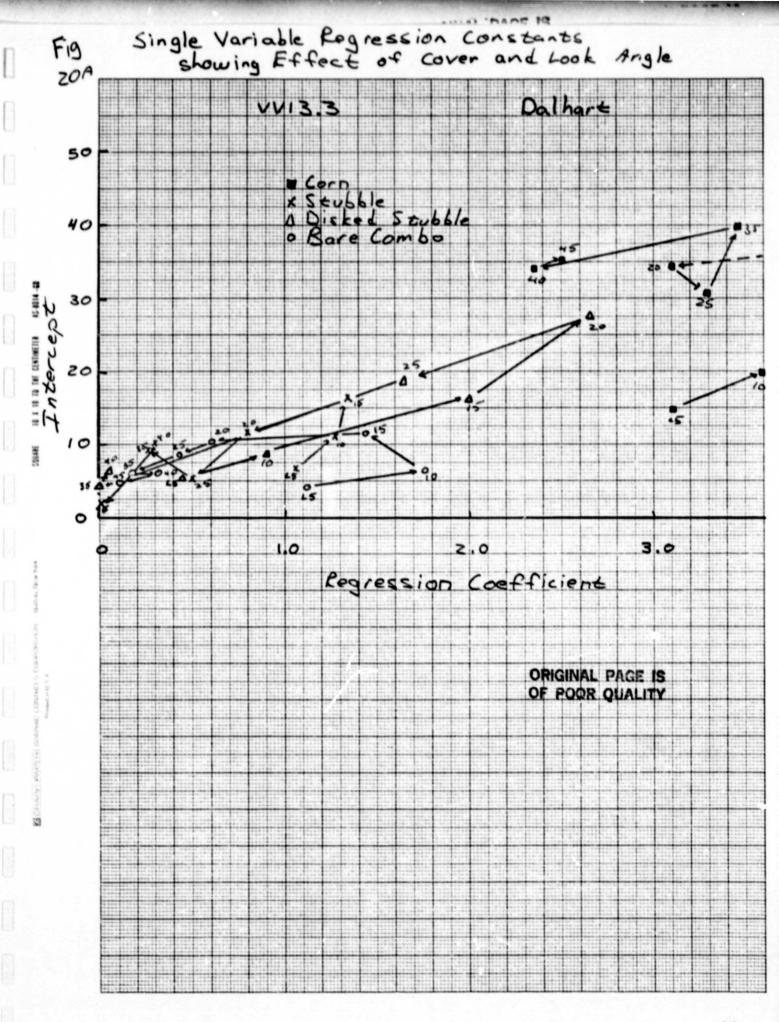
-84-

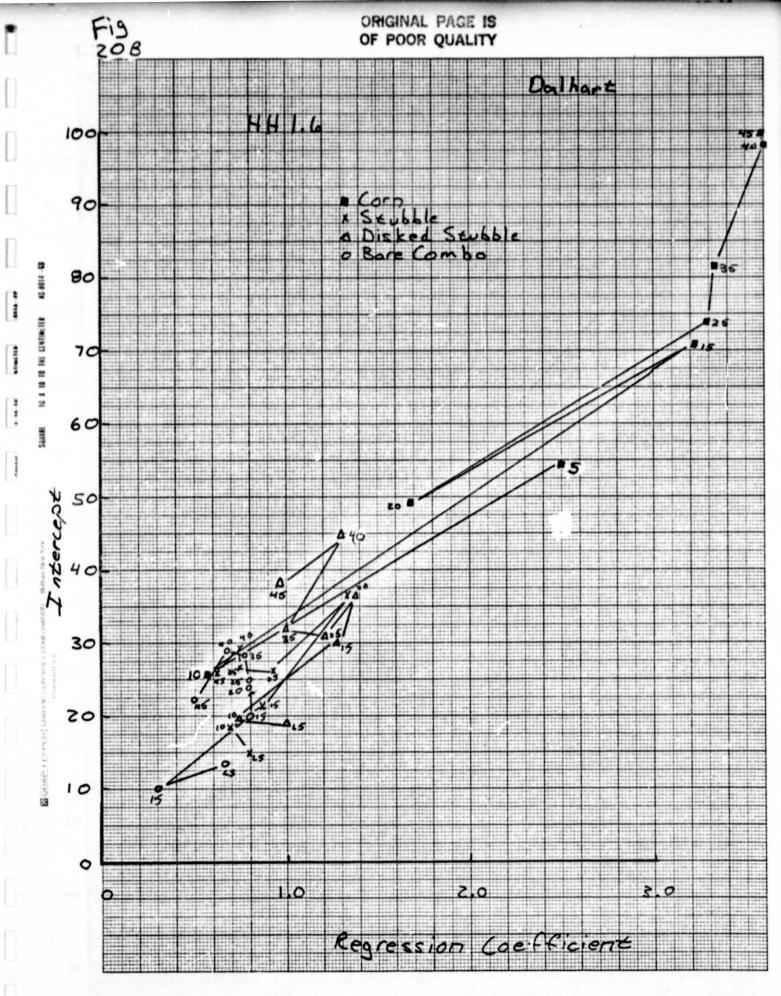


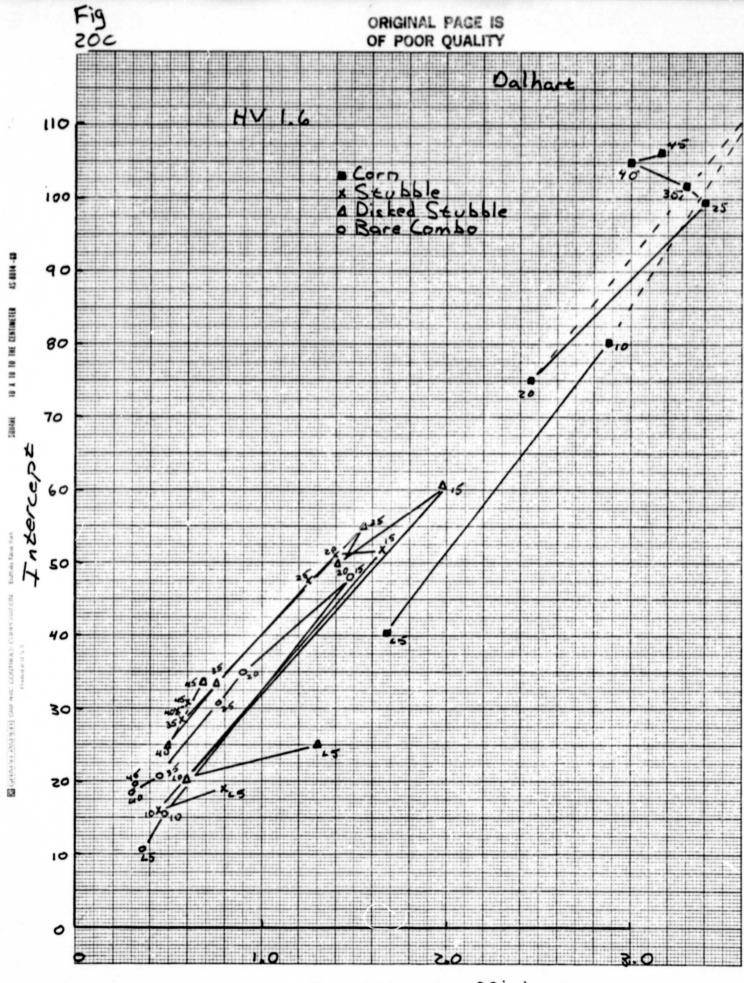




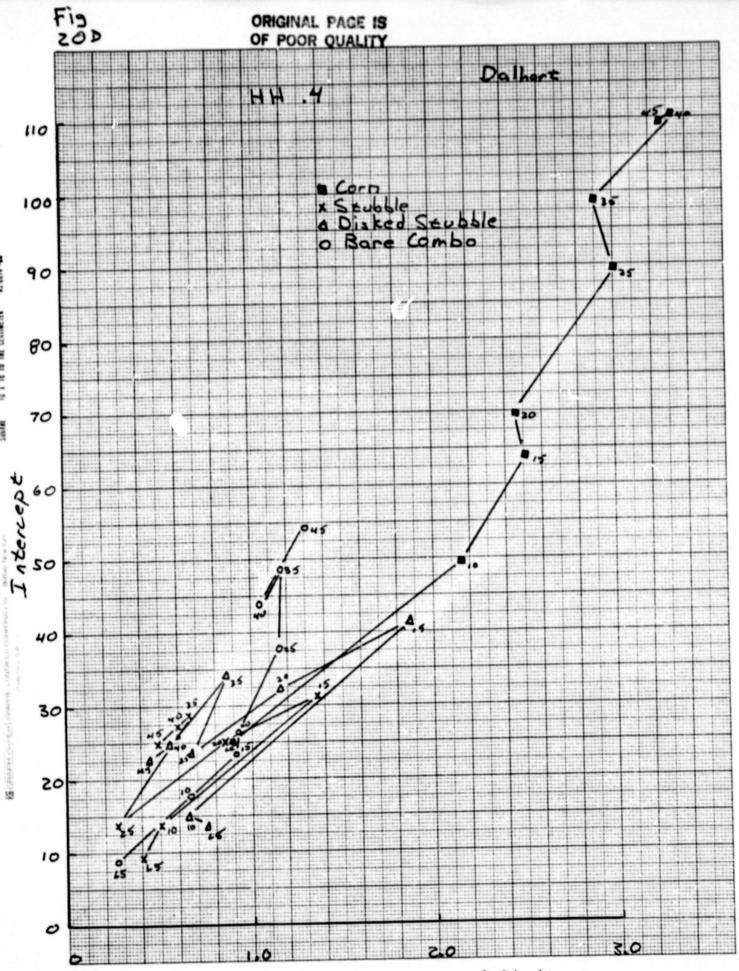




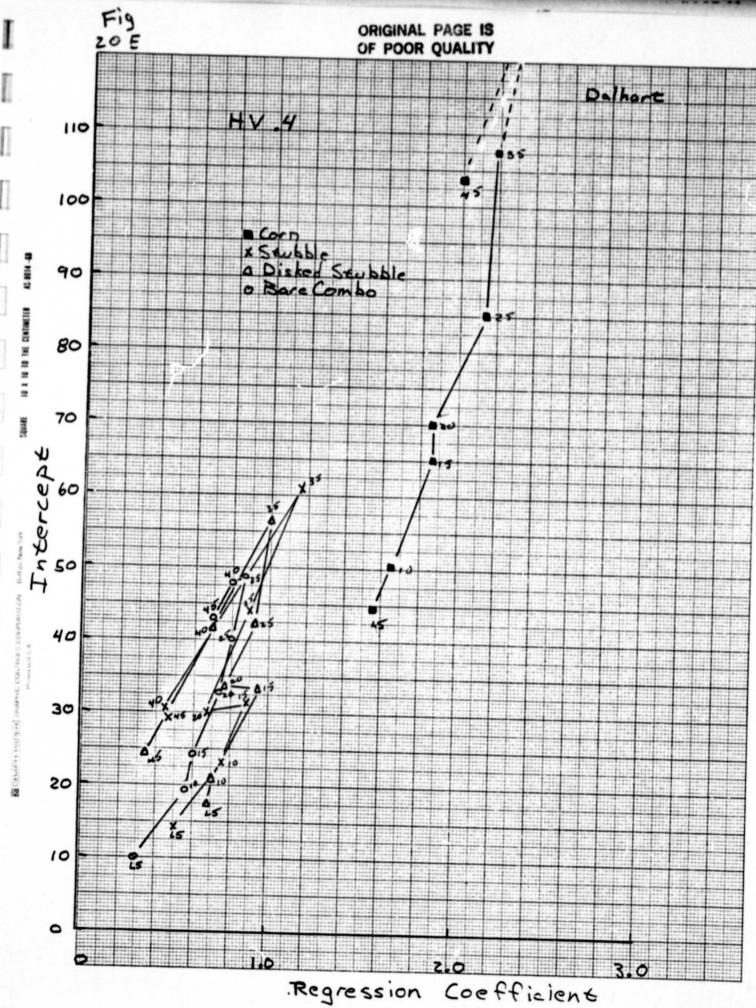


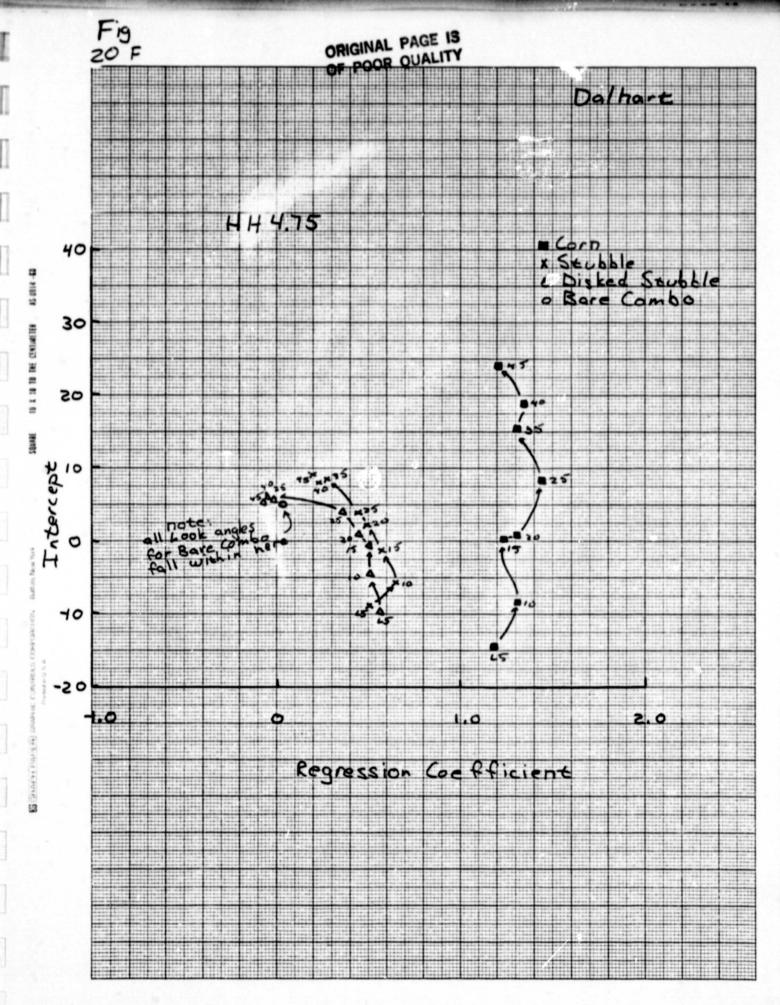


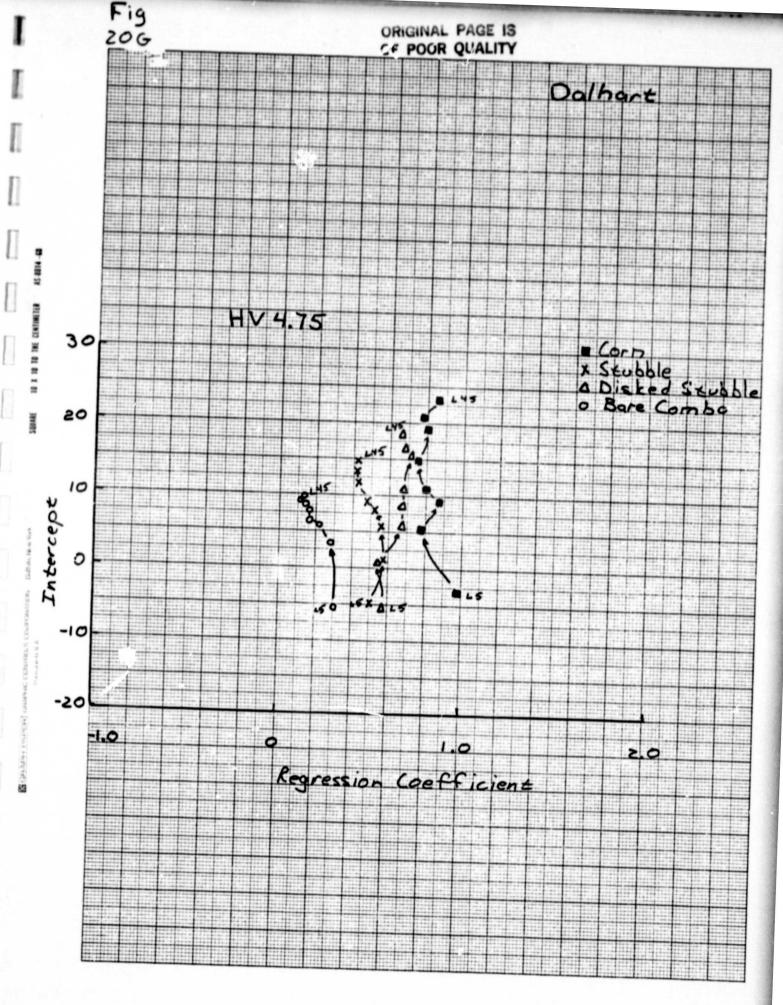
Regression Coefficient

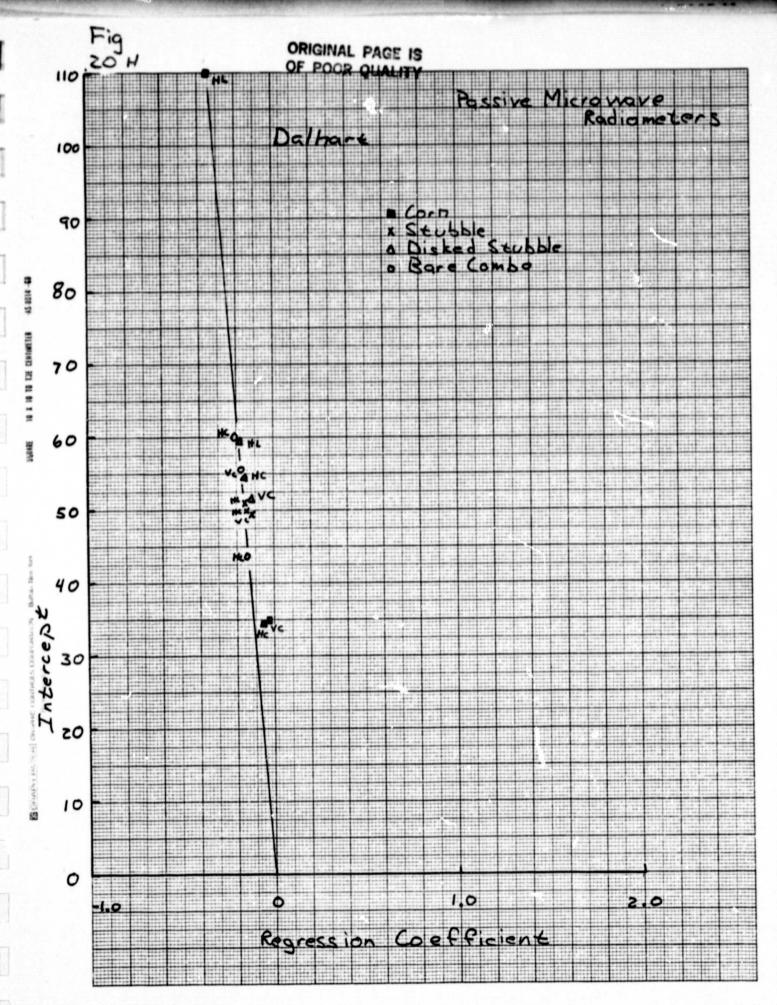


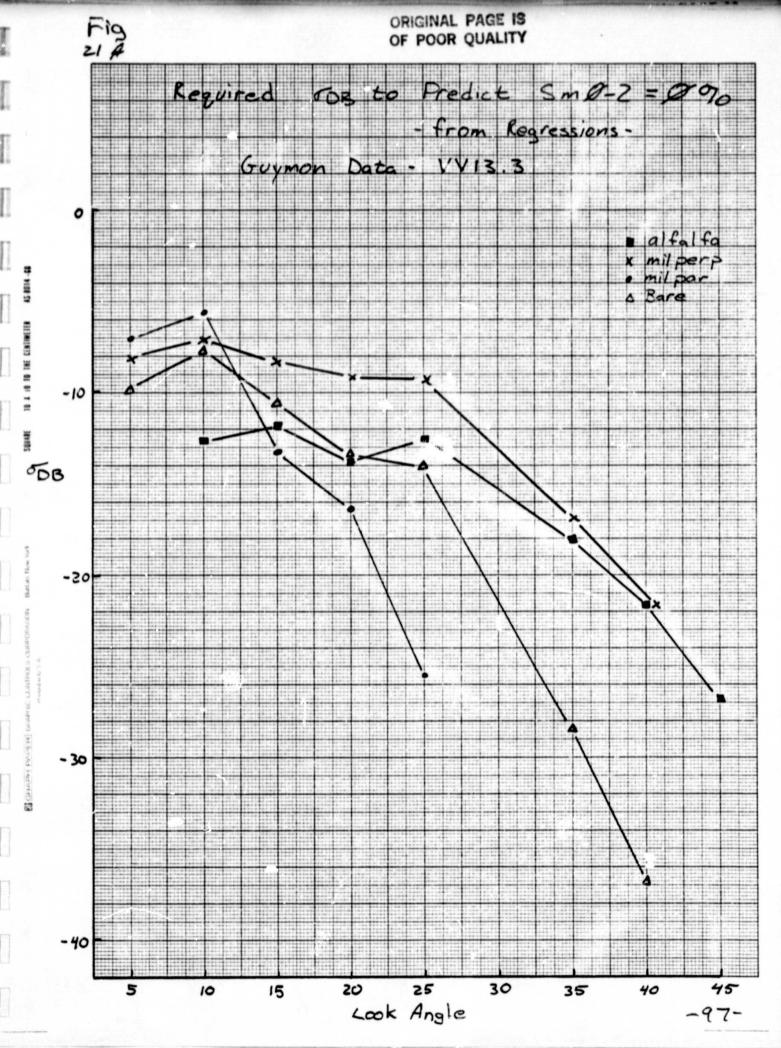
Regression Coefficient

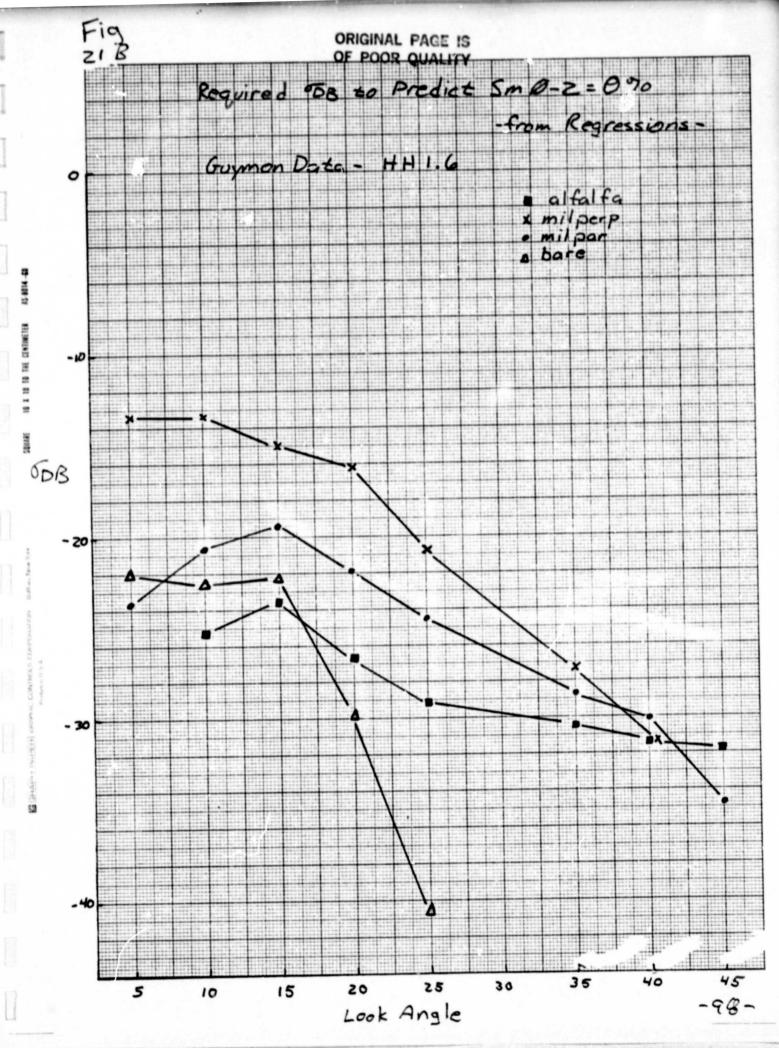


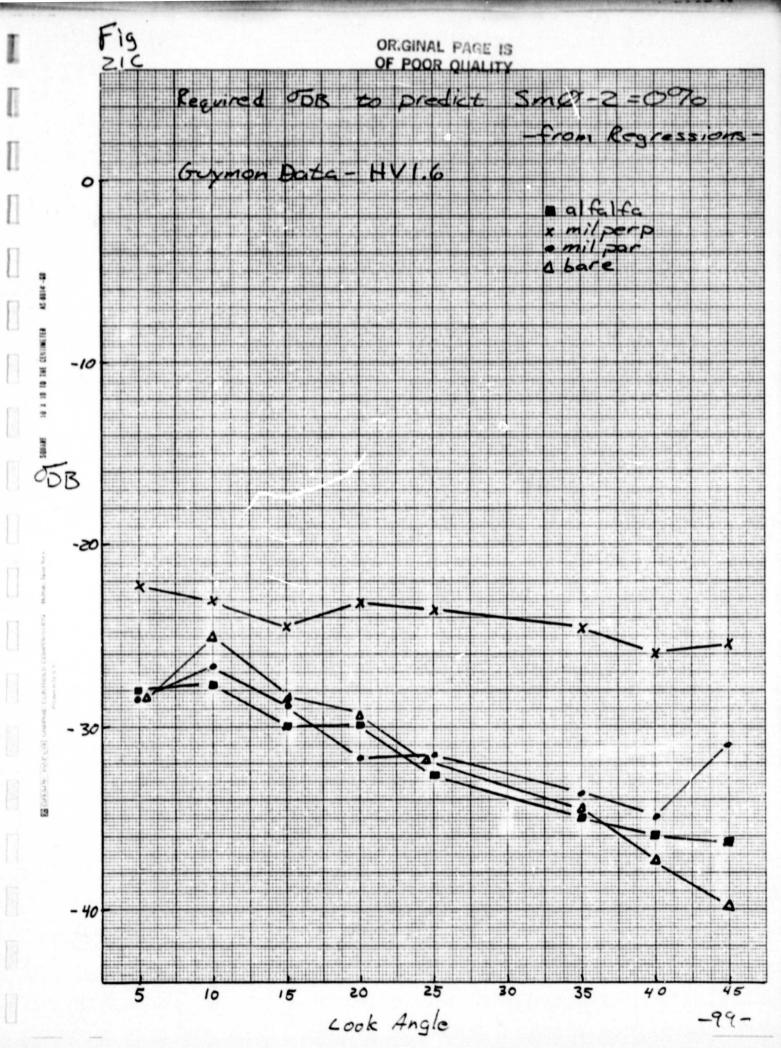


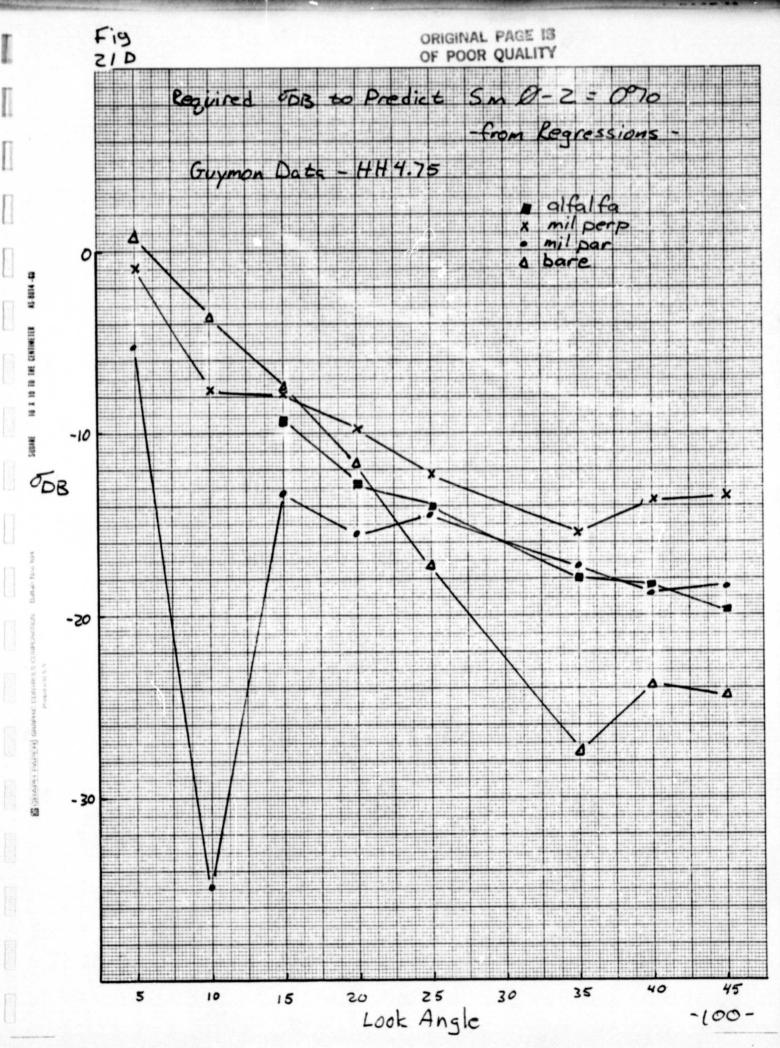


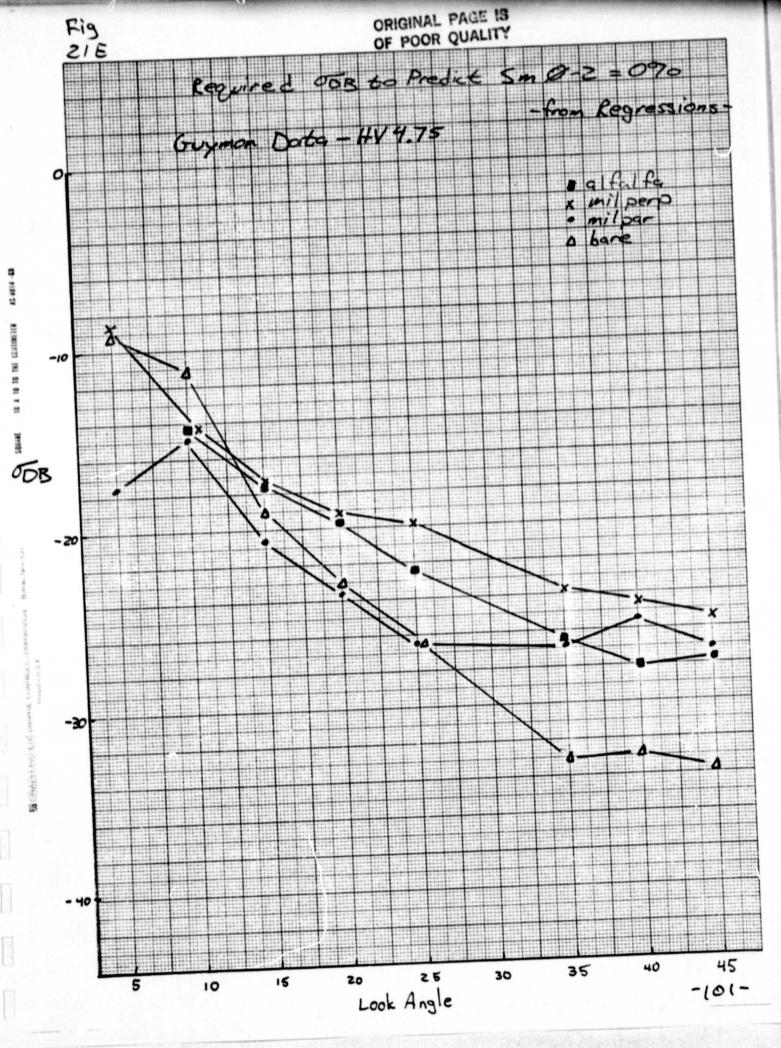


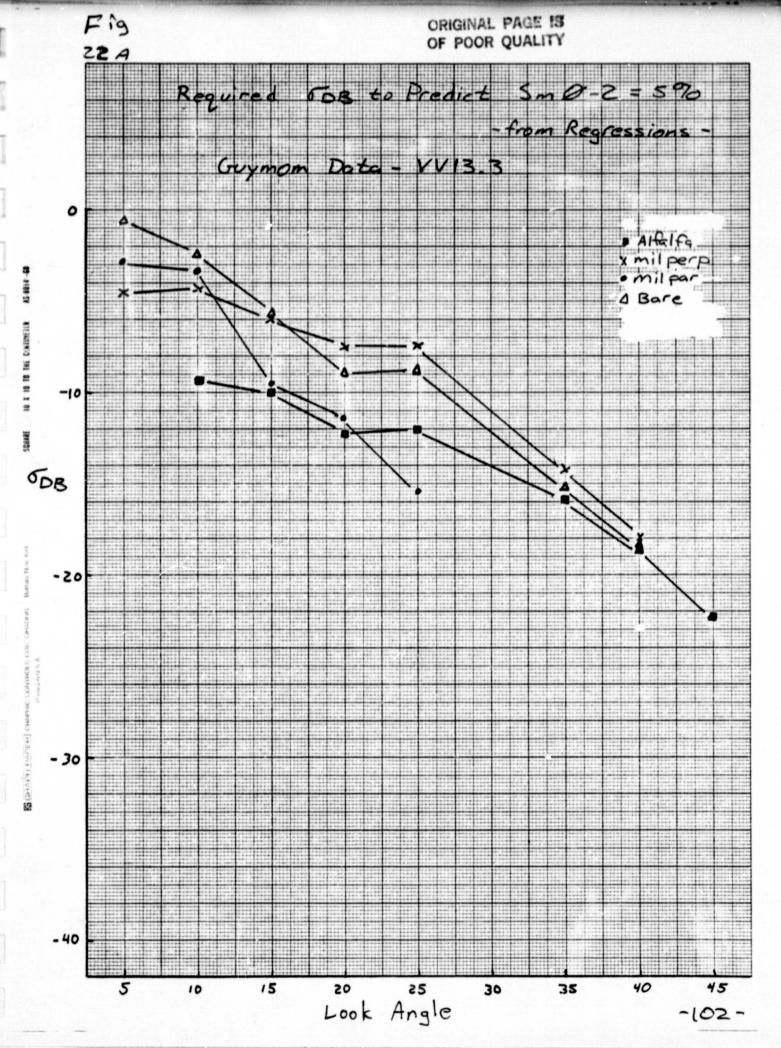


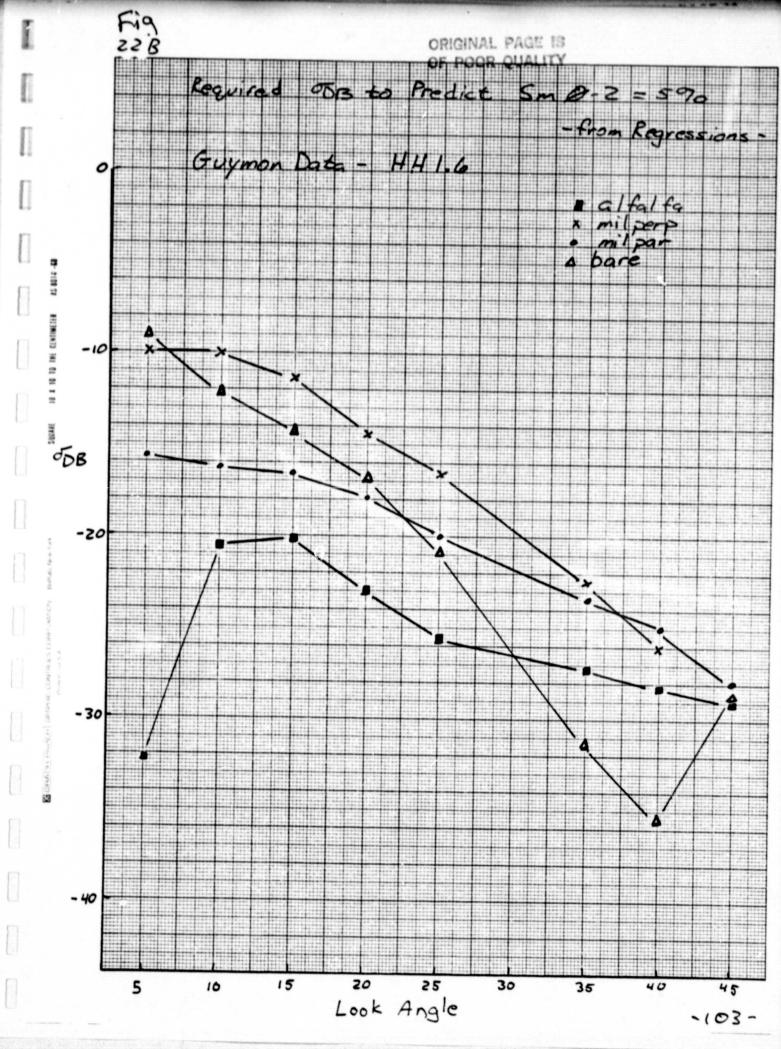


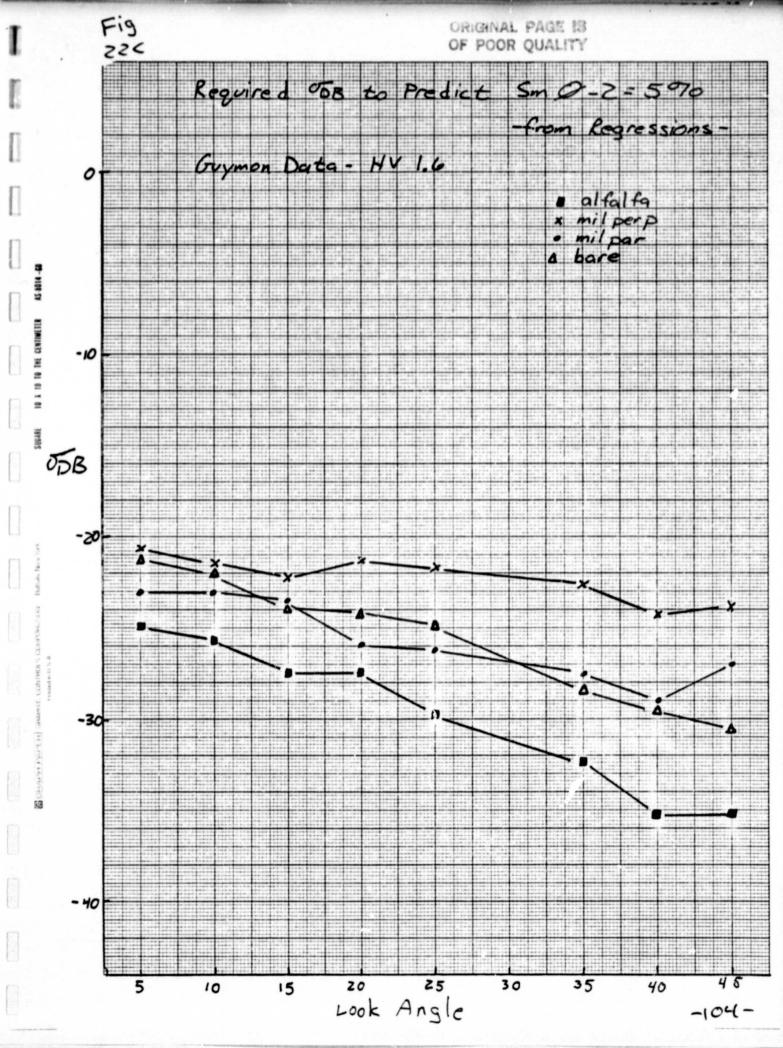


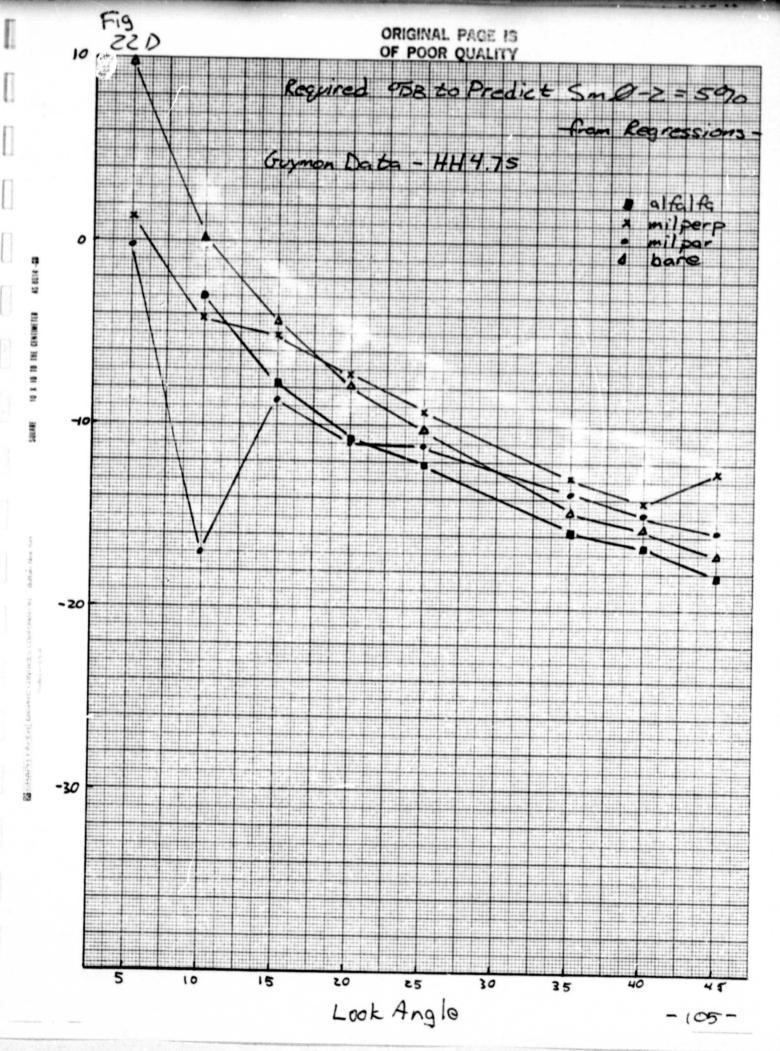


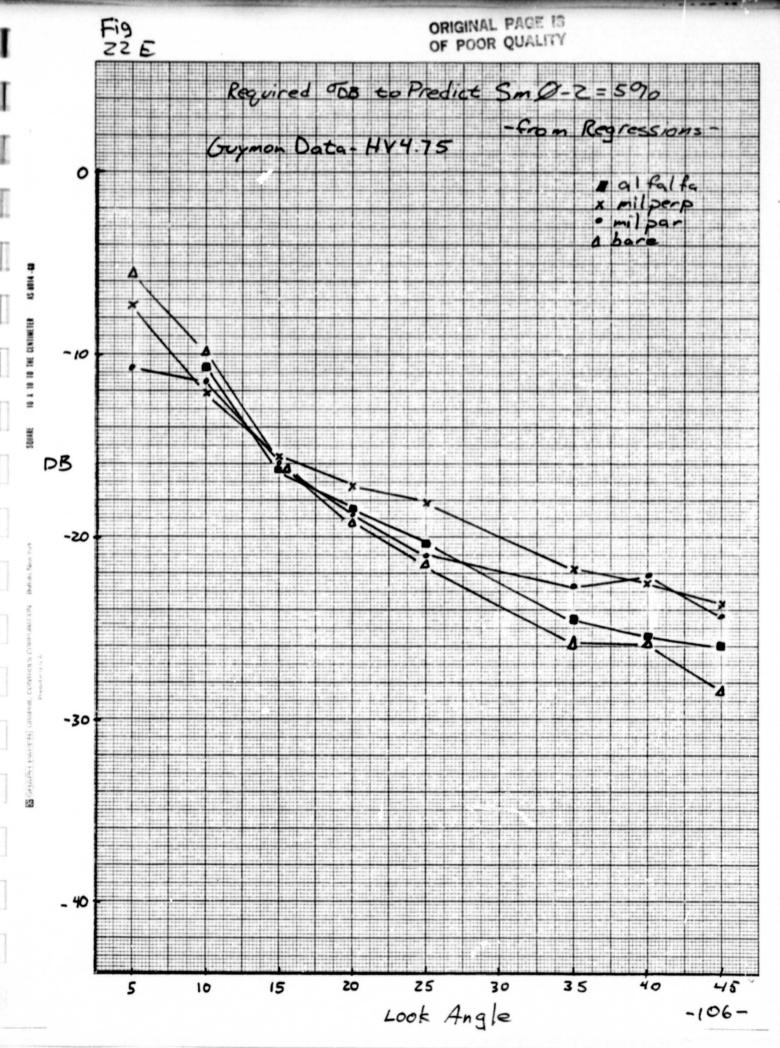


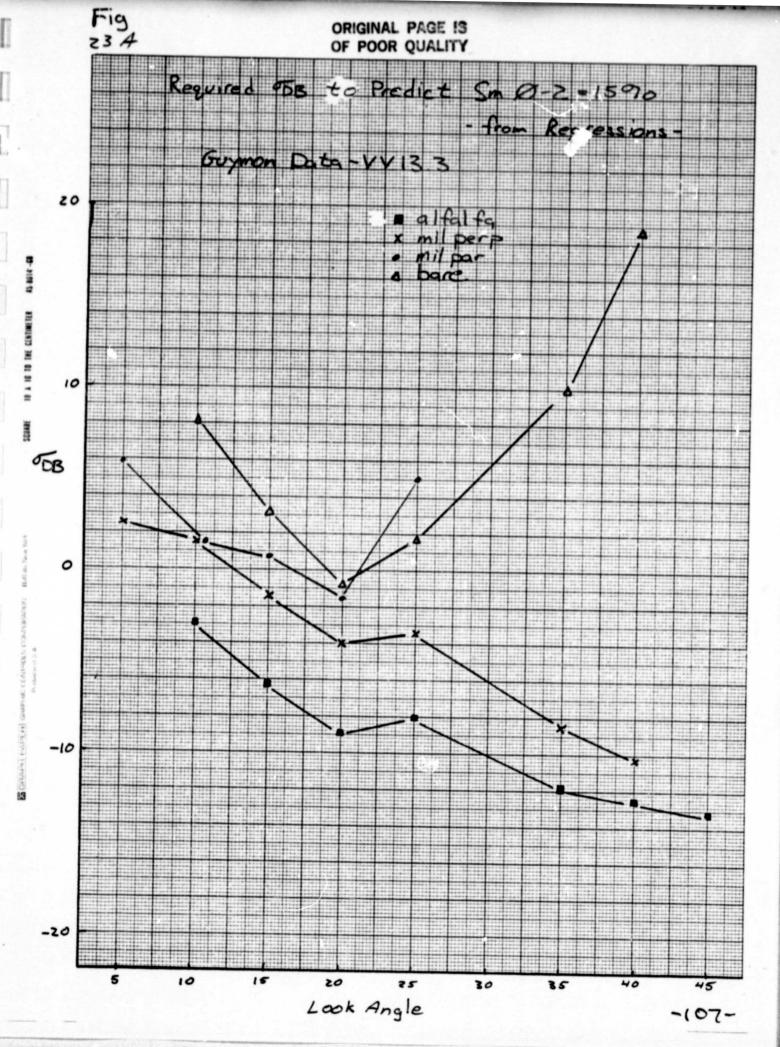


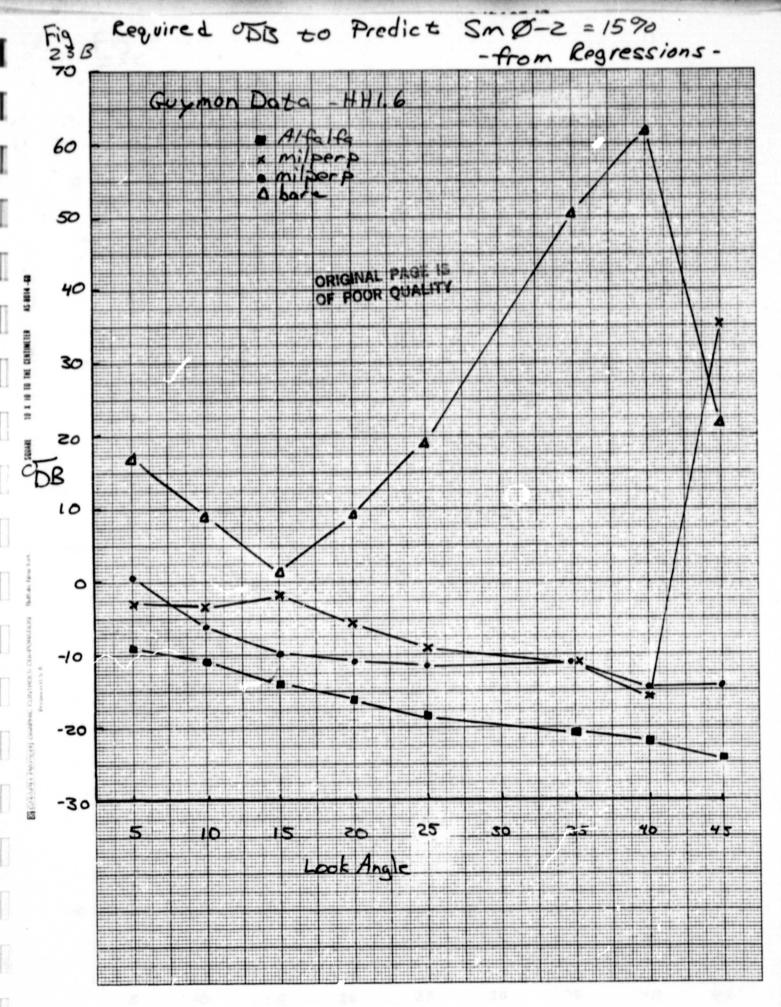


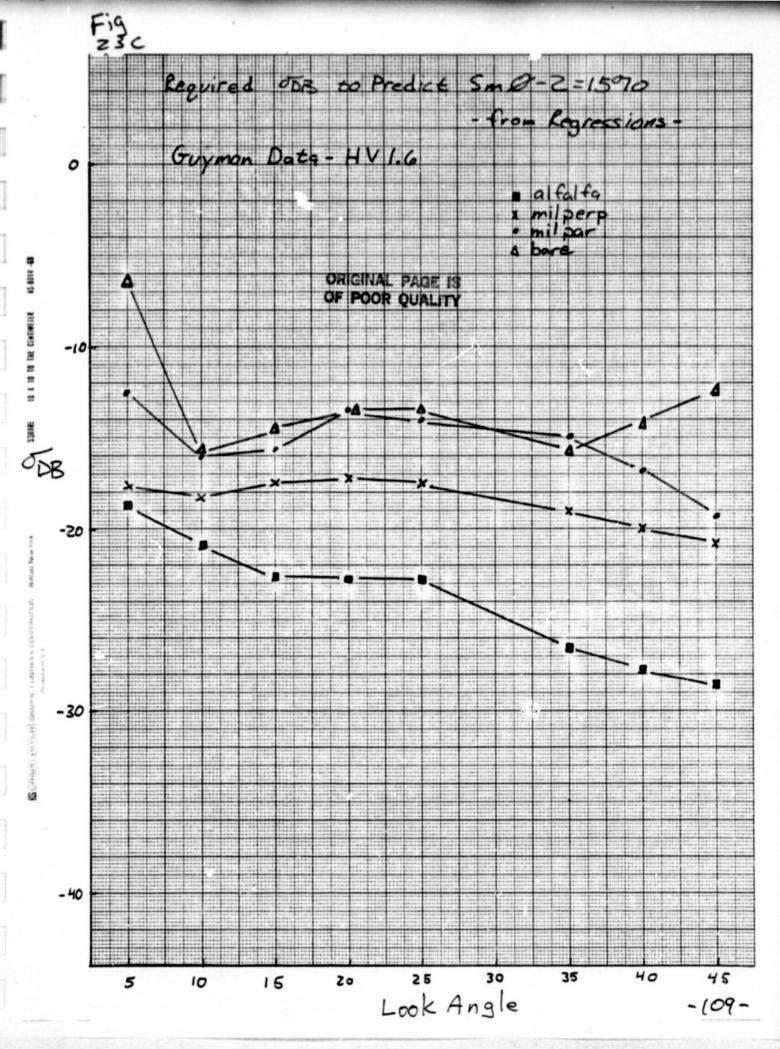


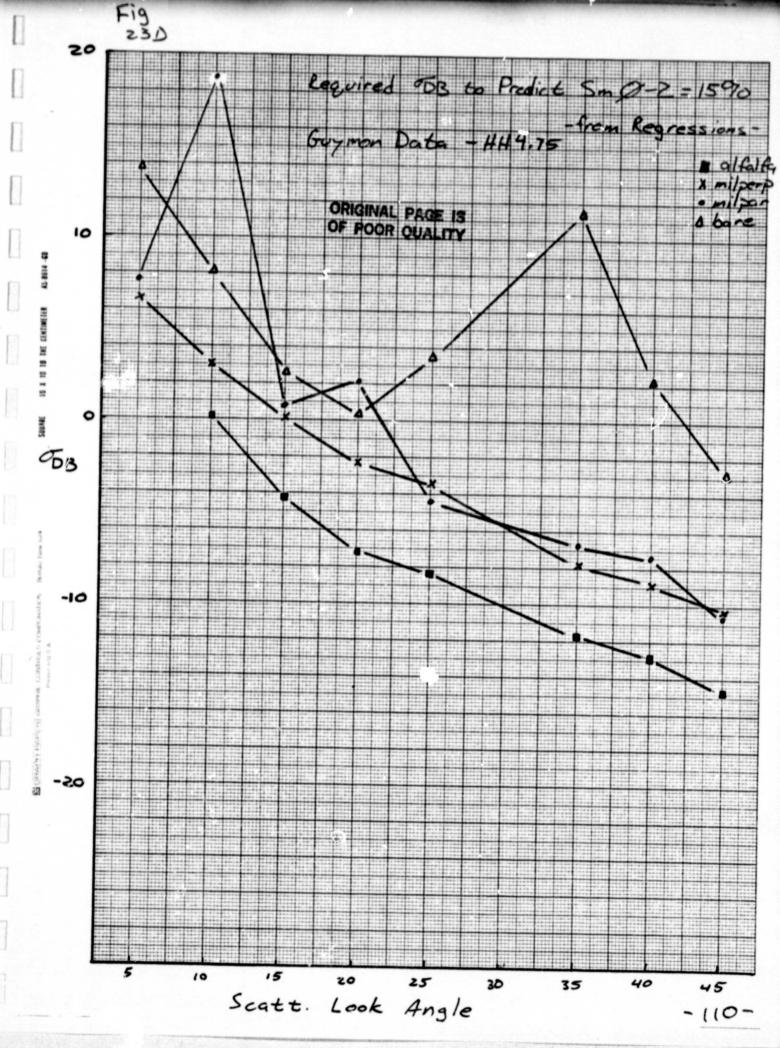


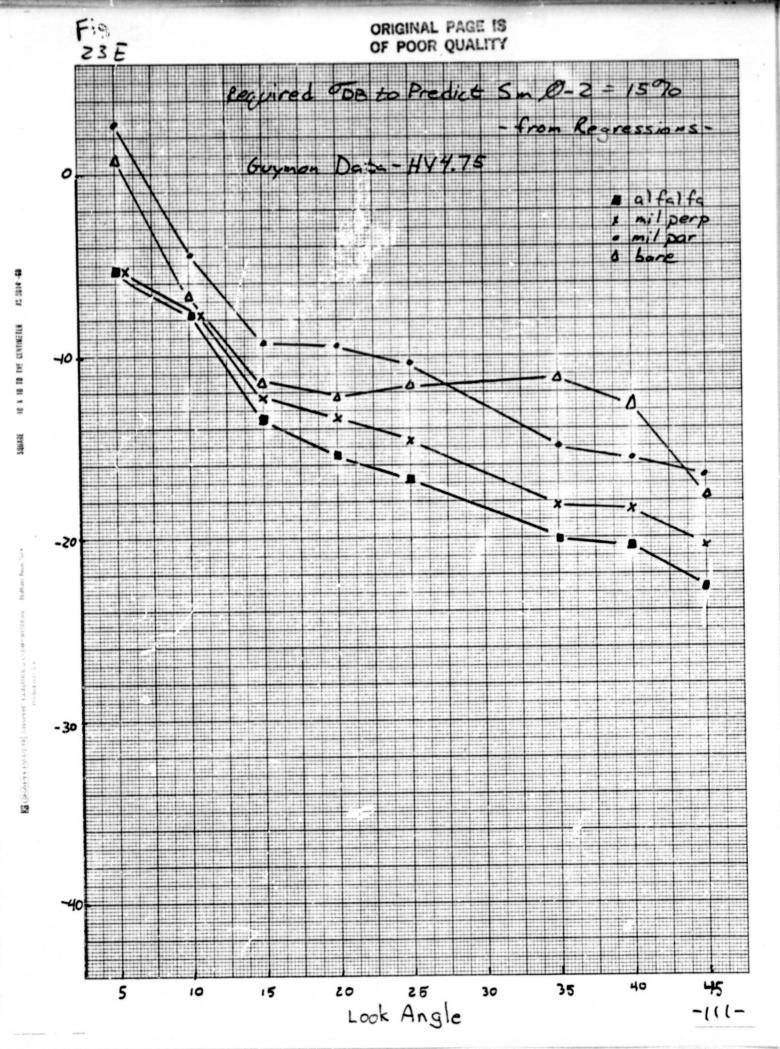


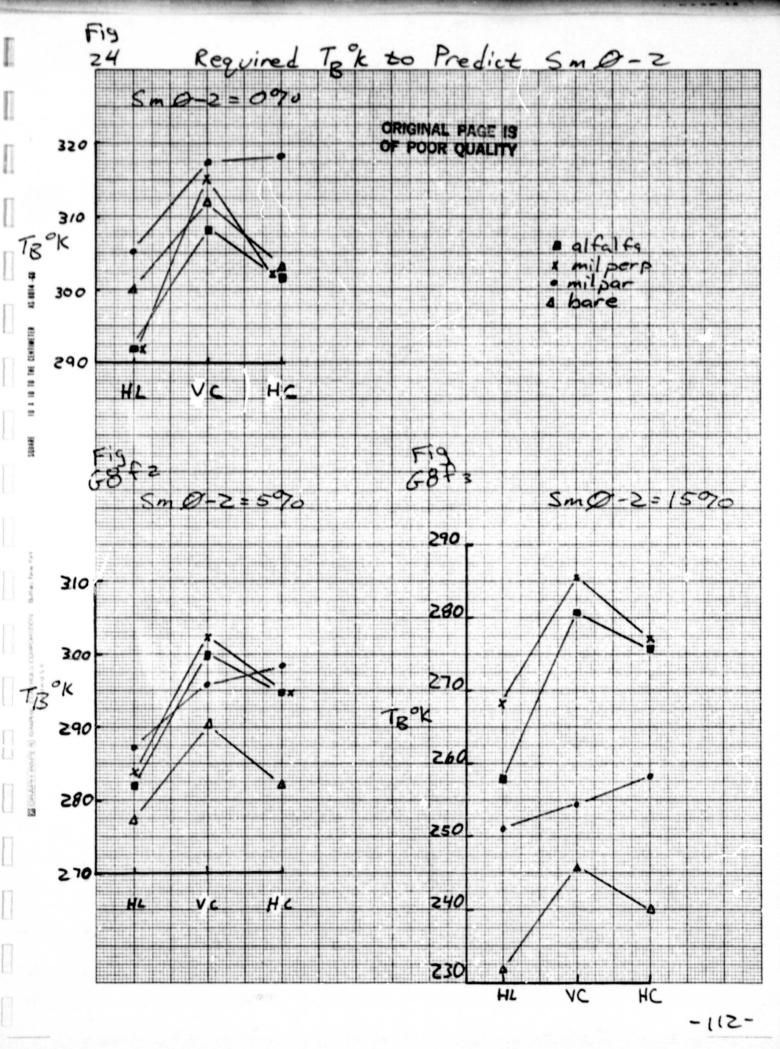


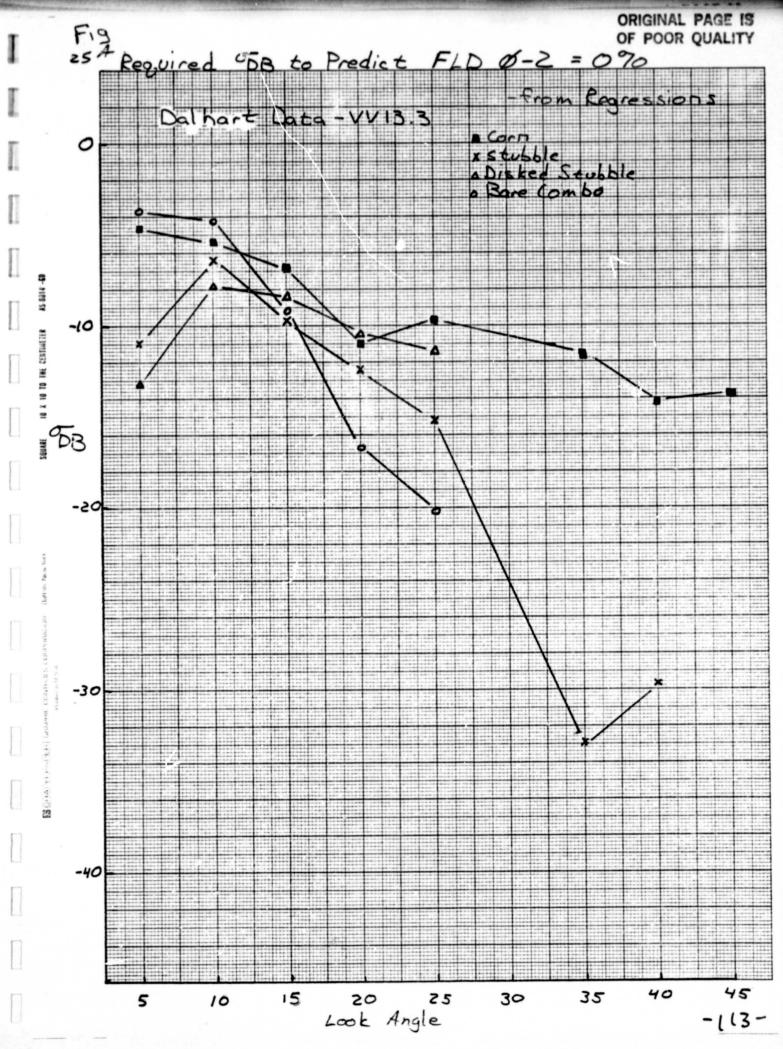


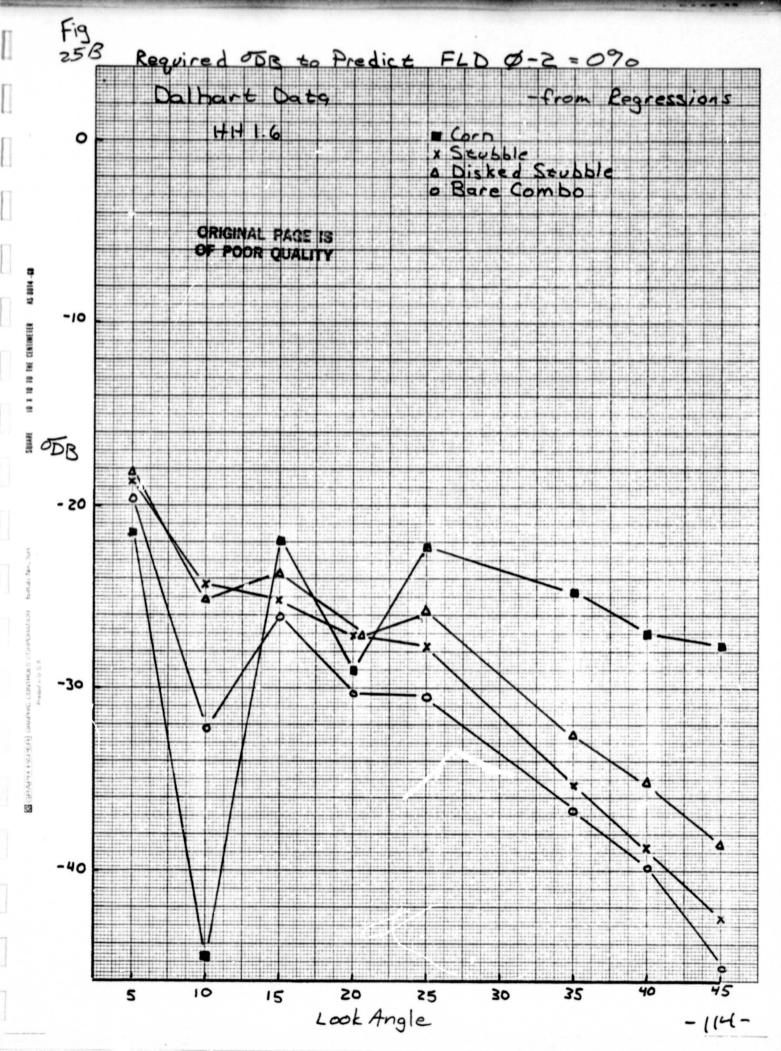


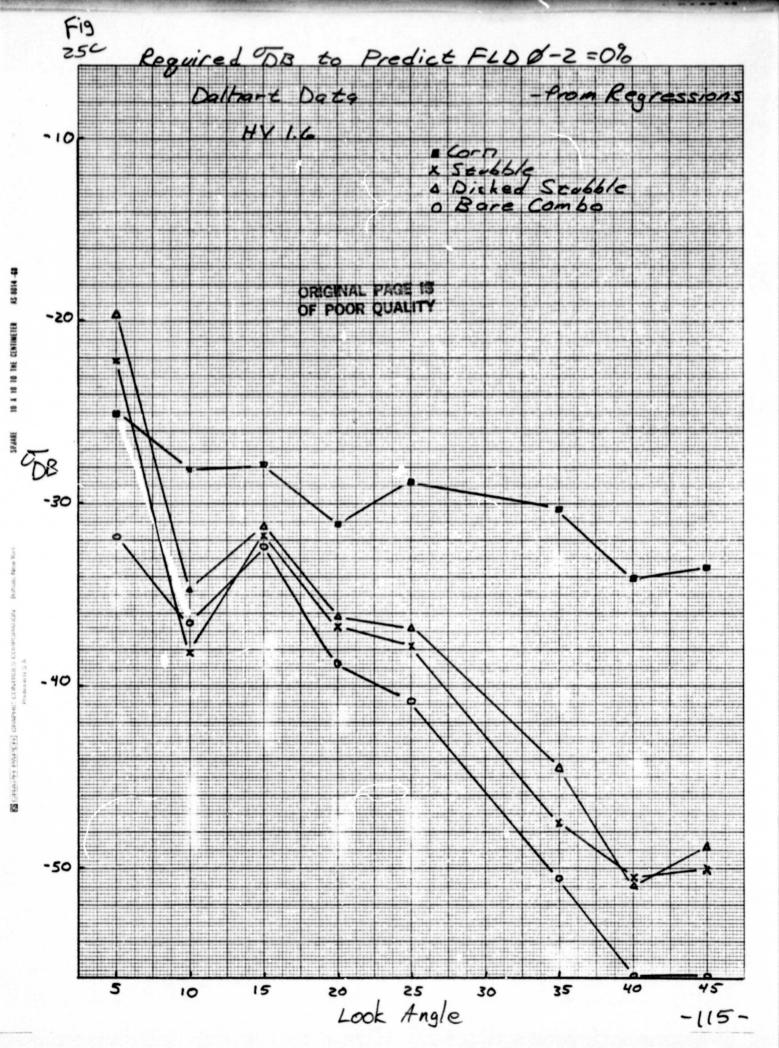


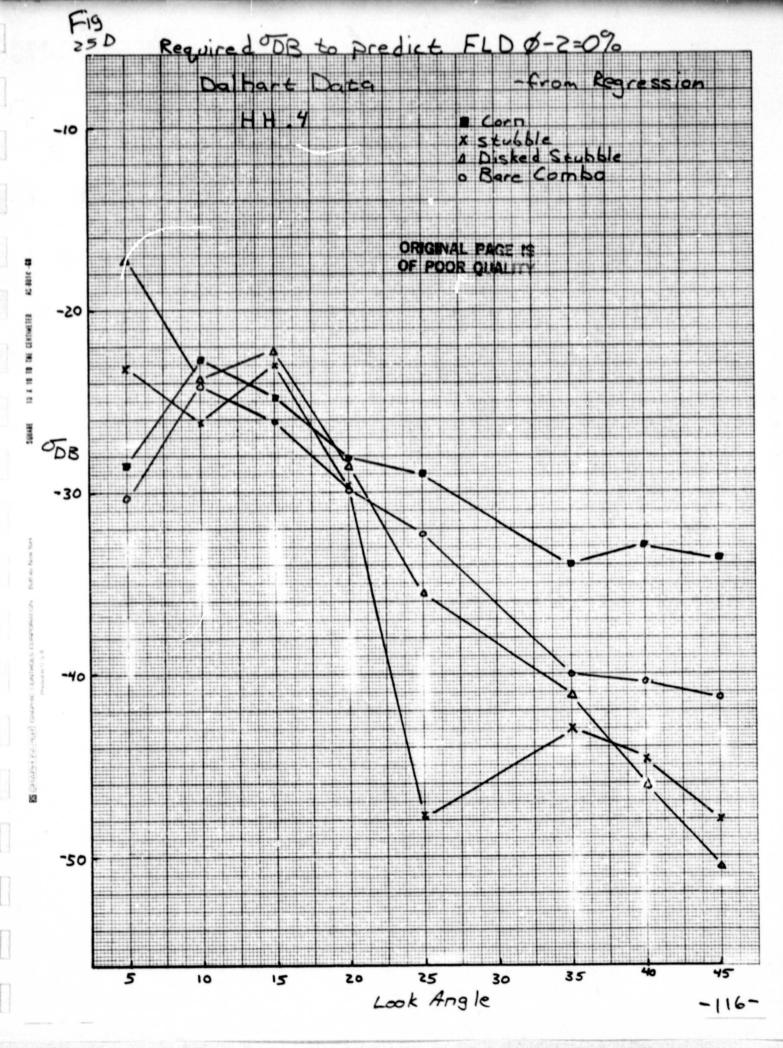


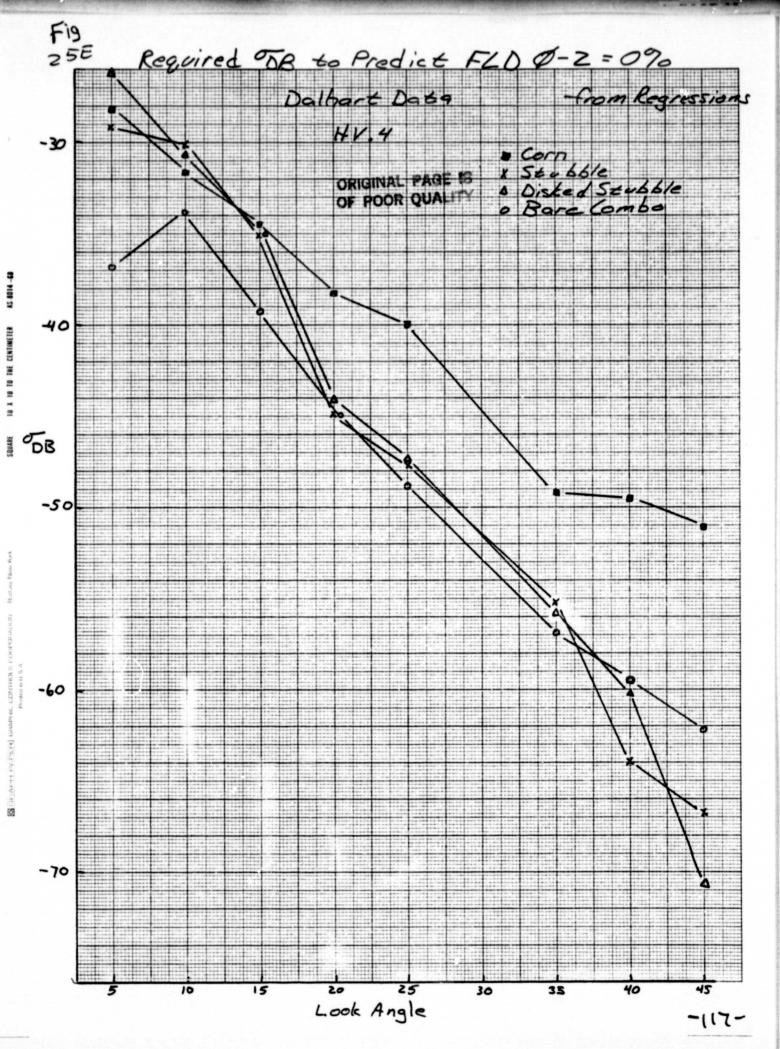


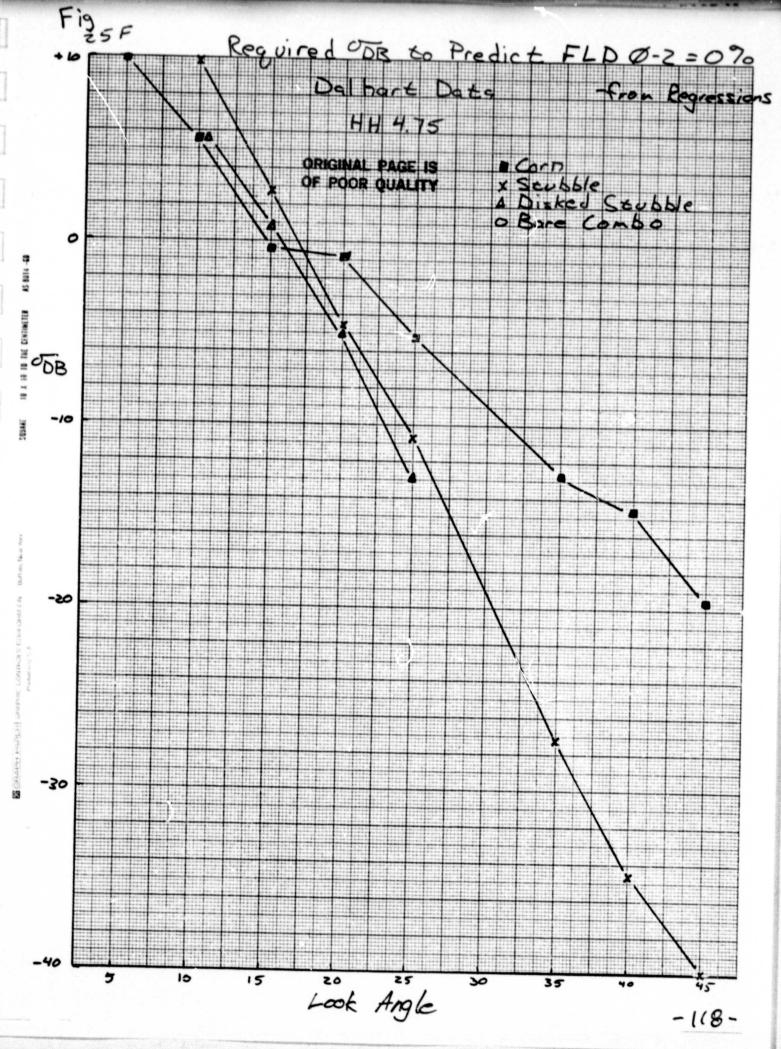


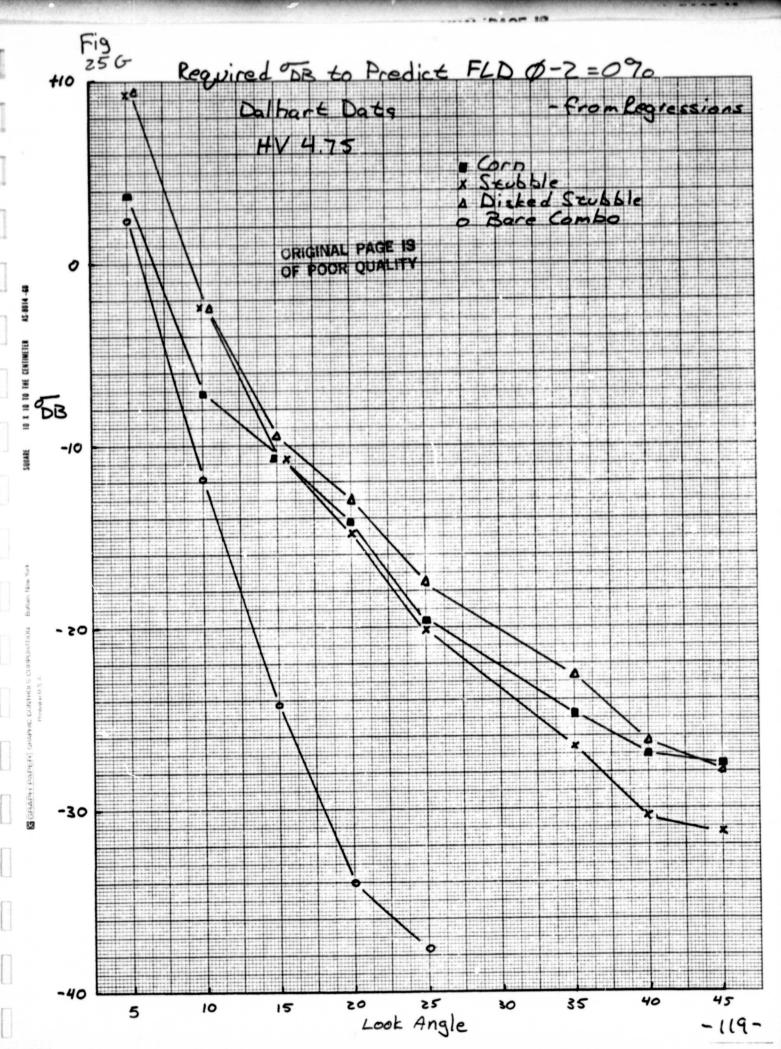


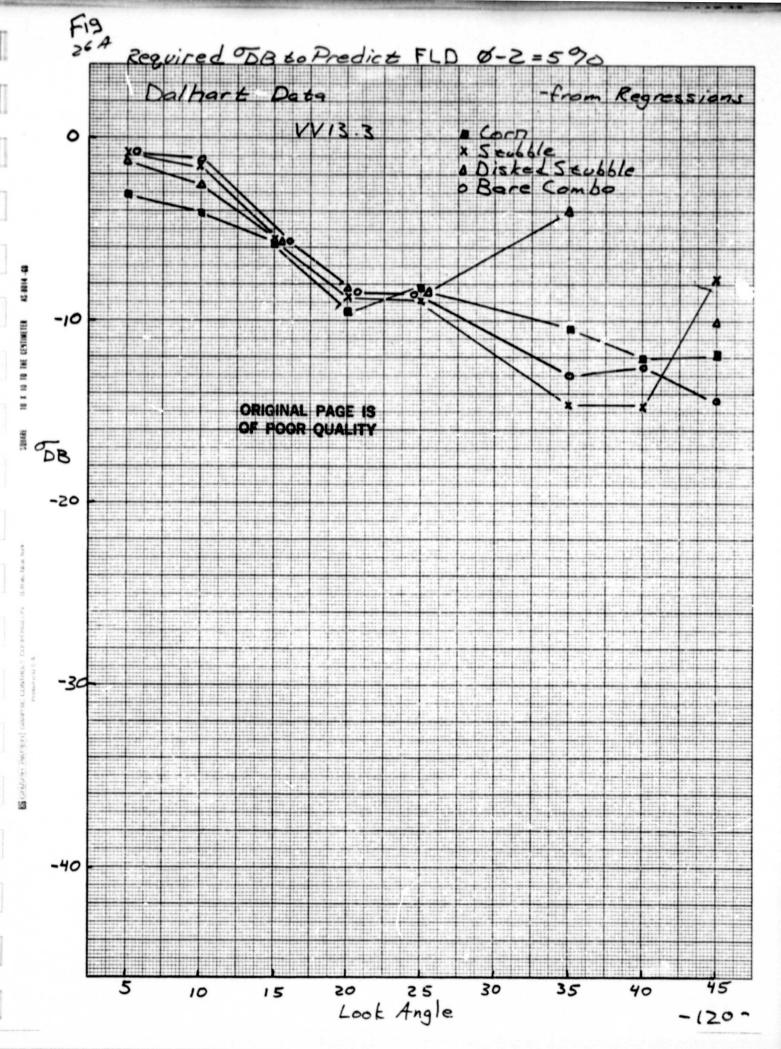


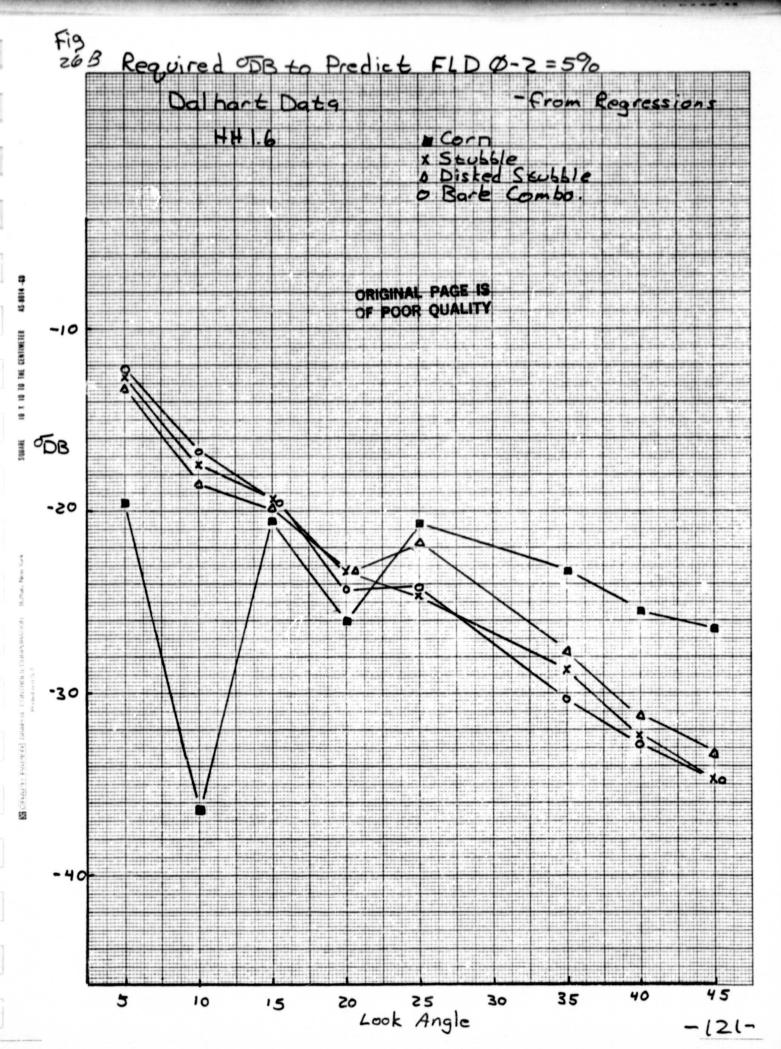


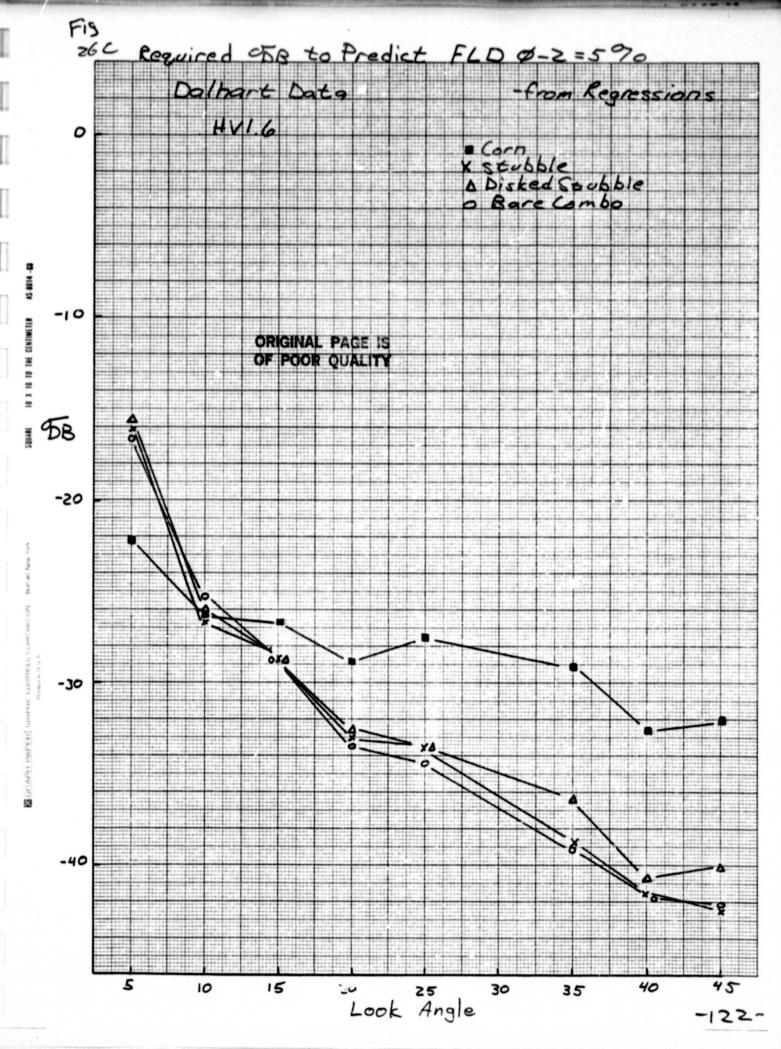


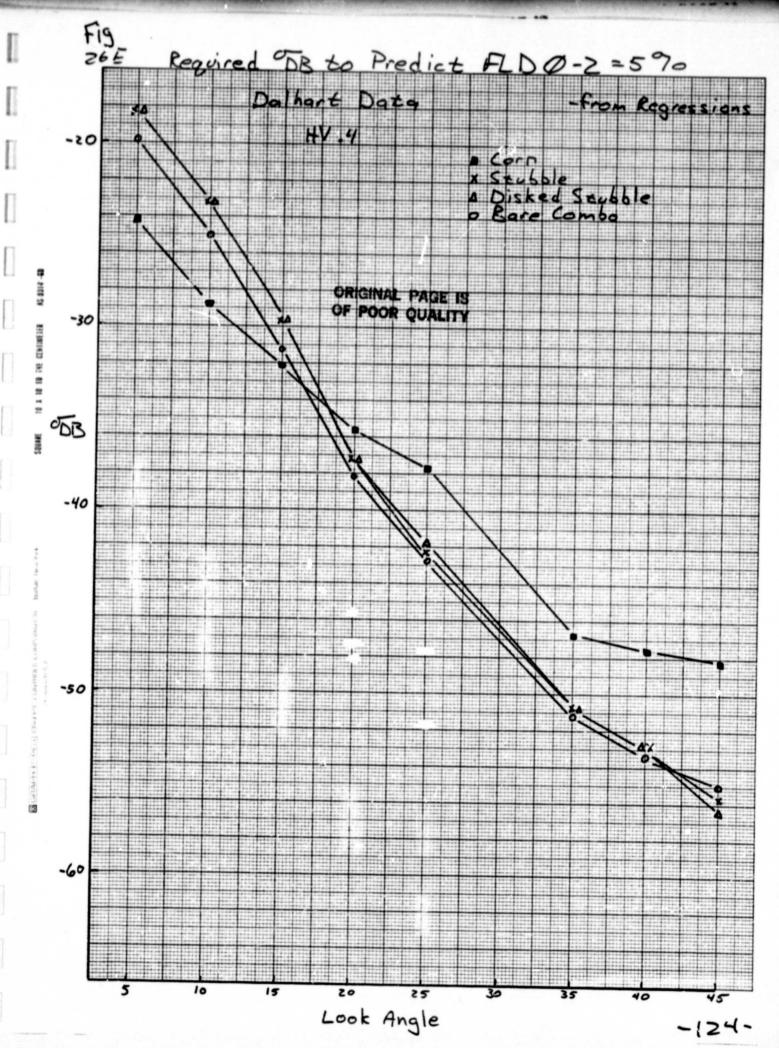


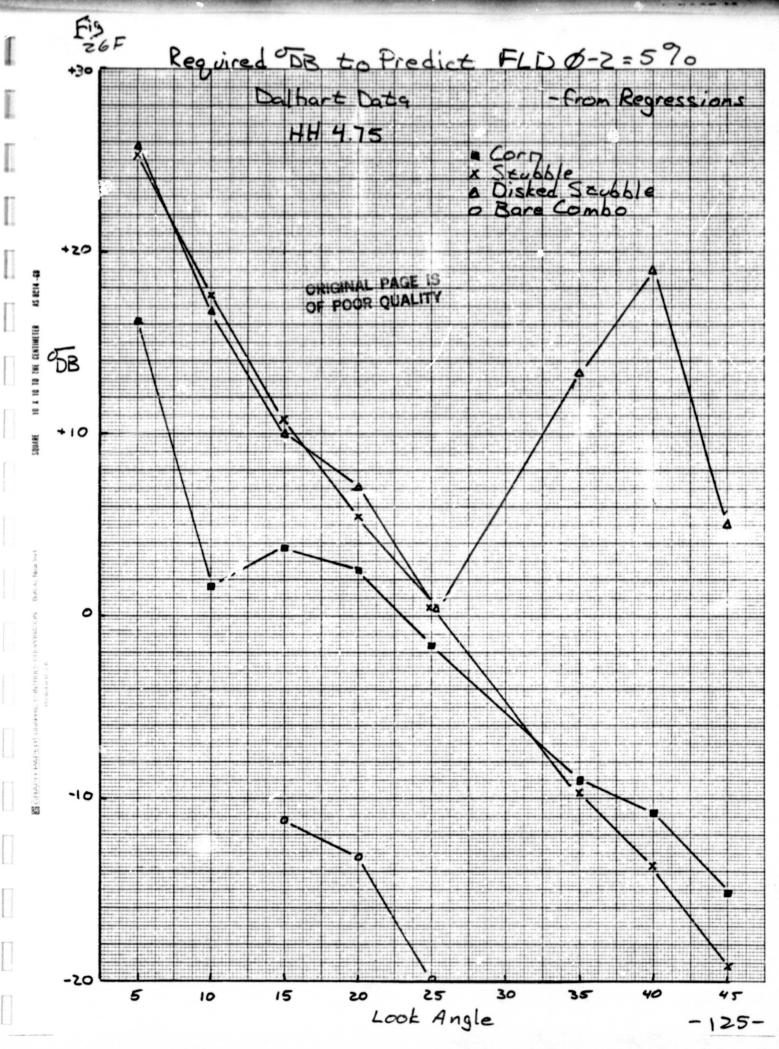


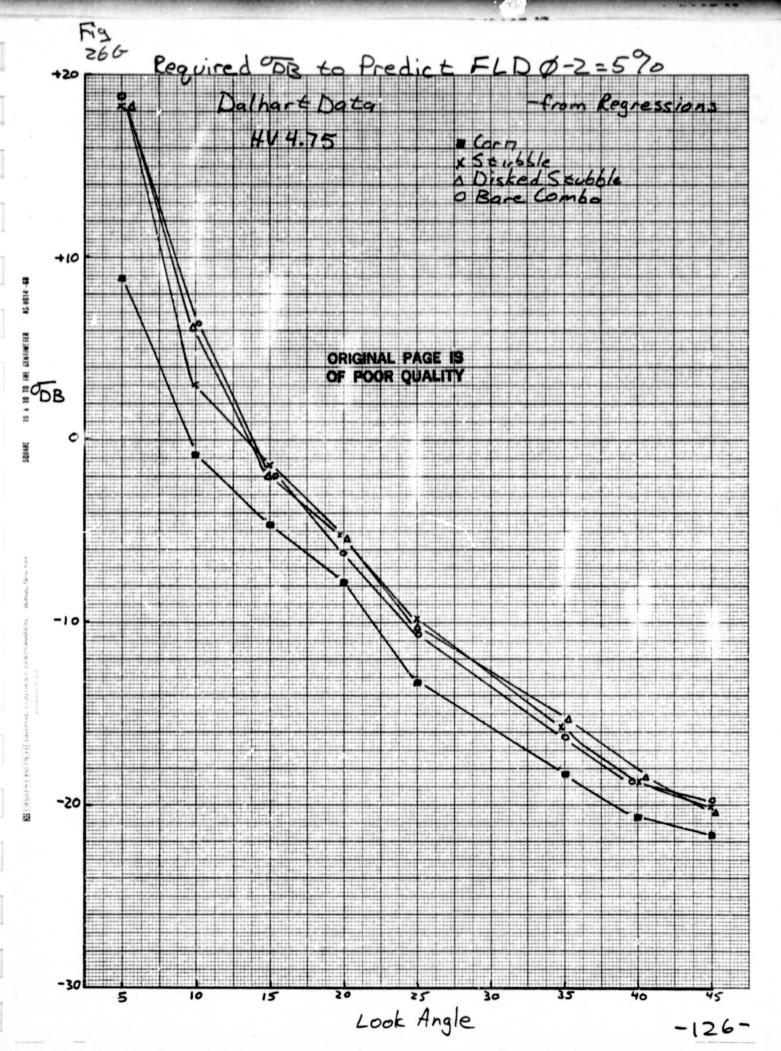


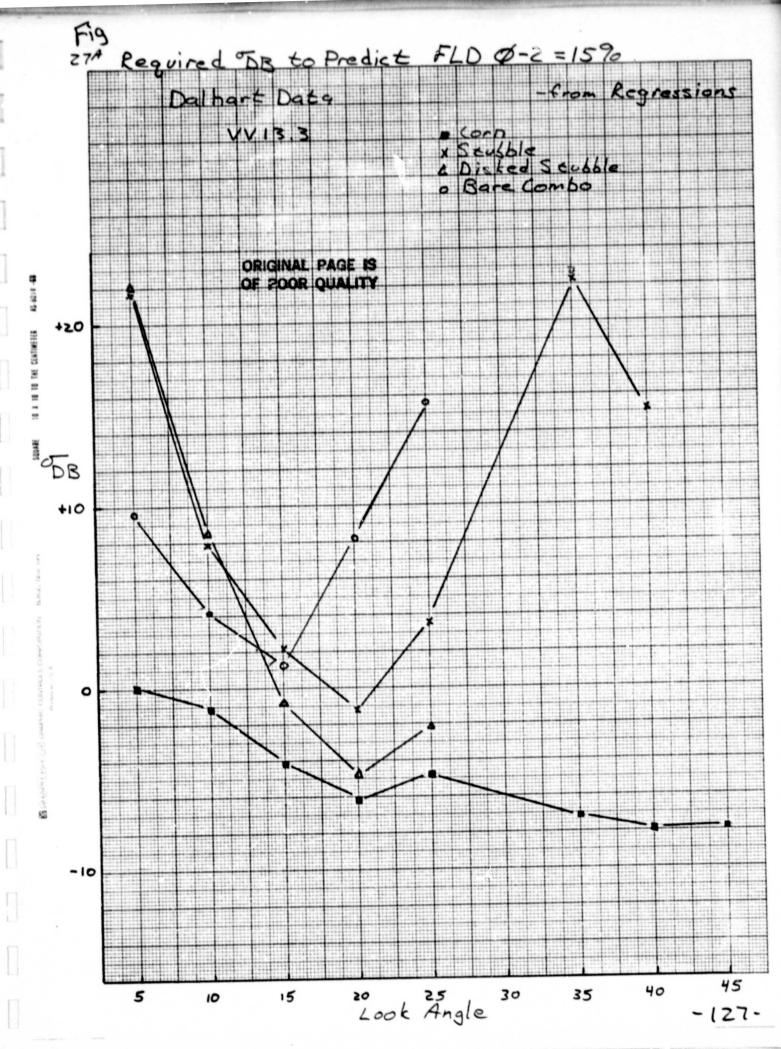


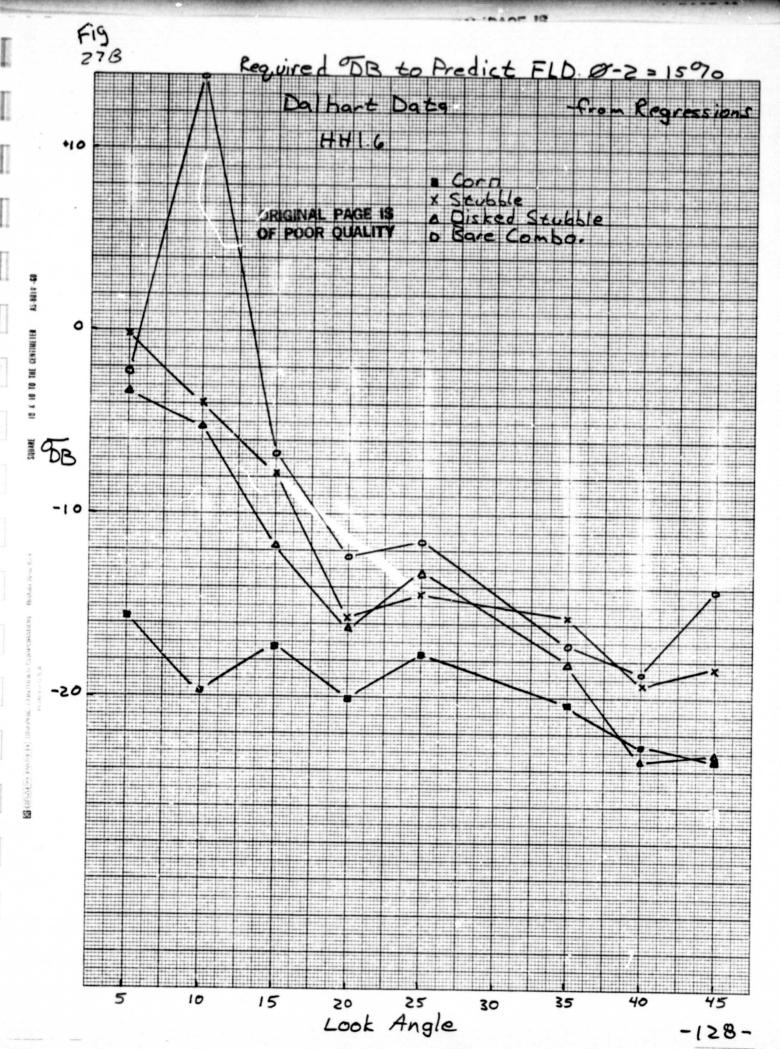


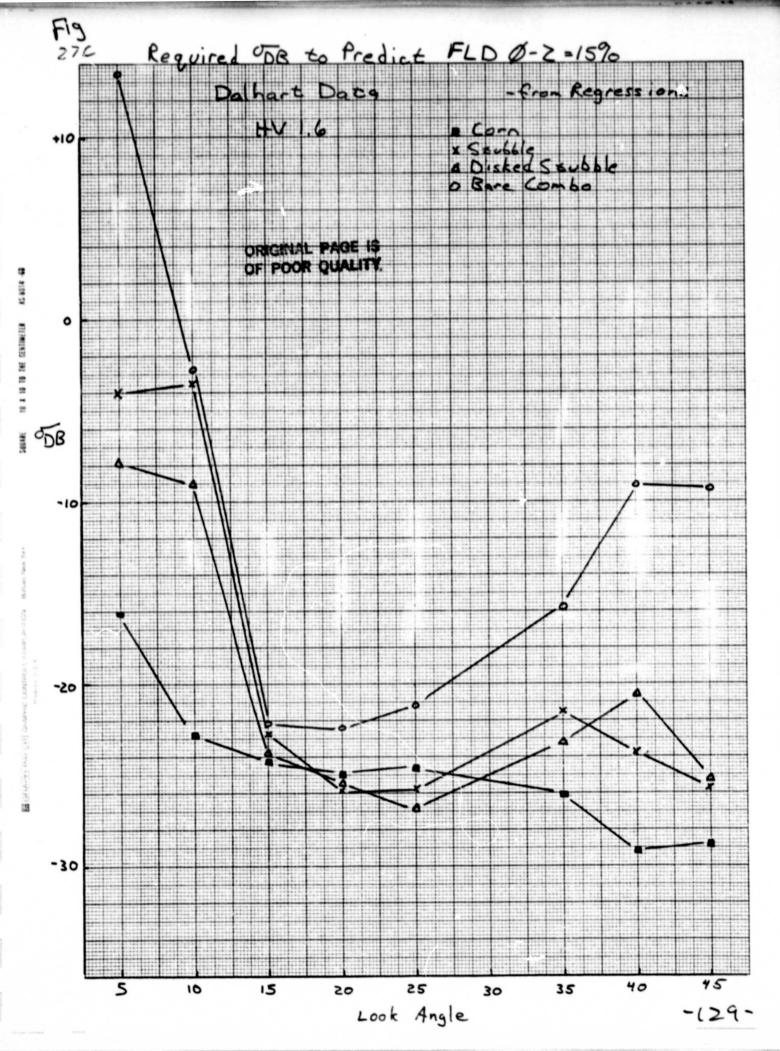


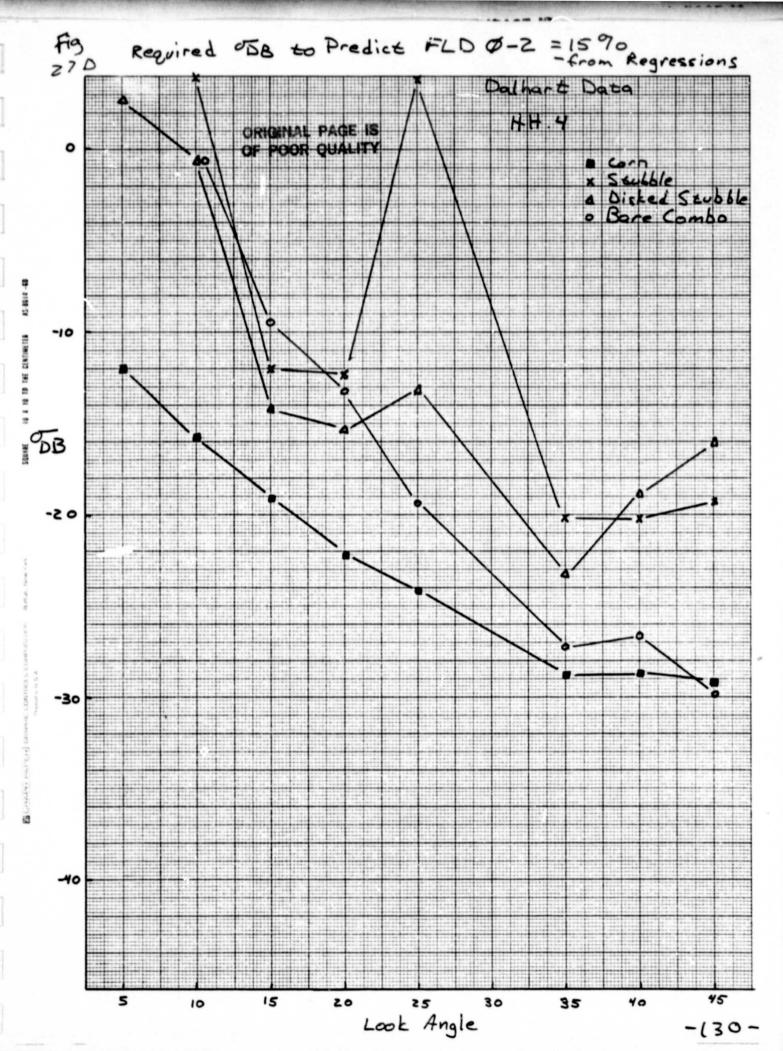


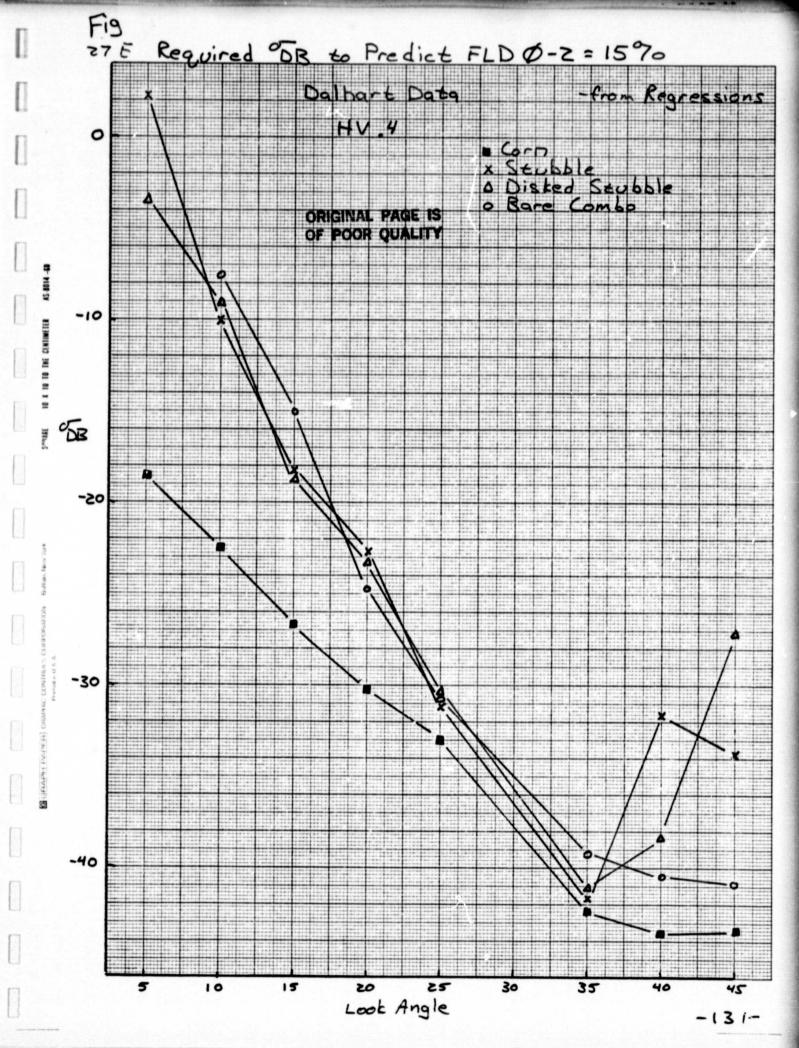


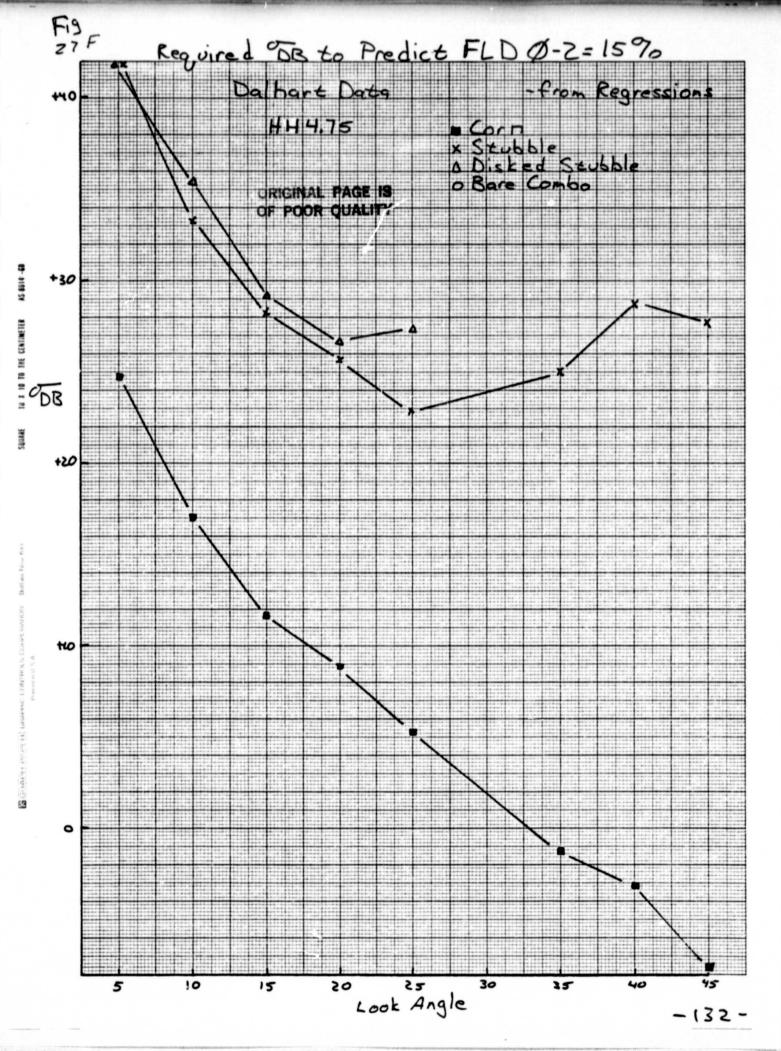


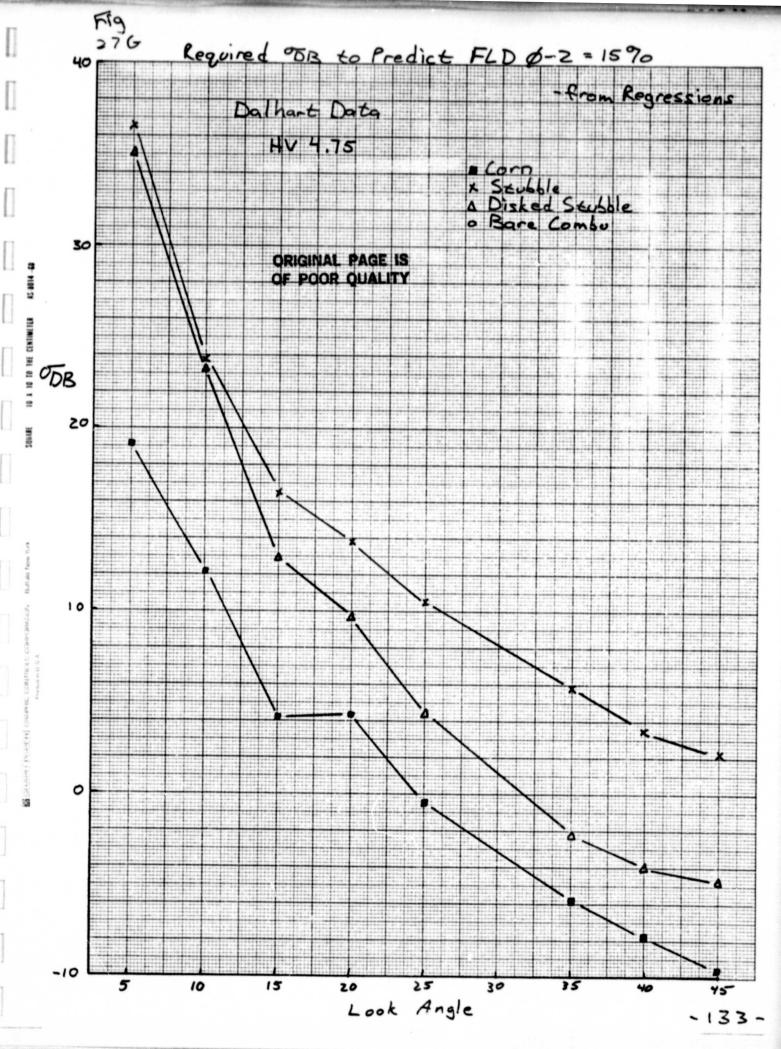


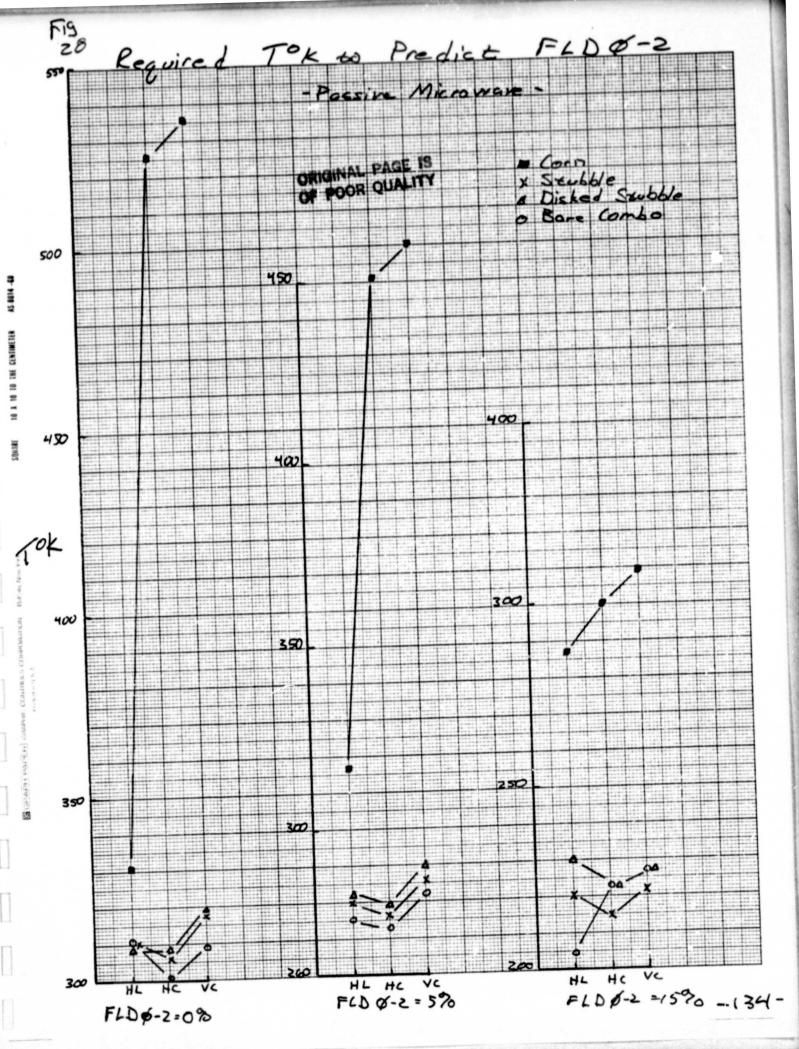








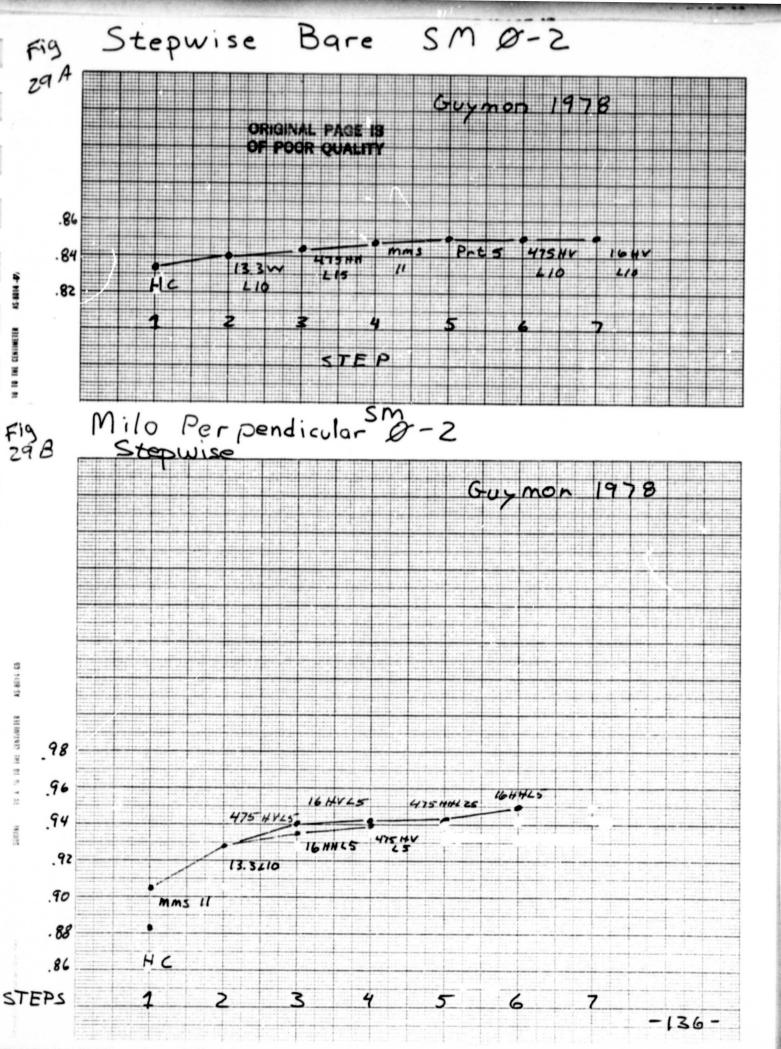


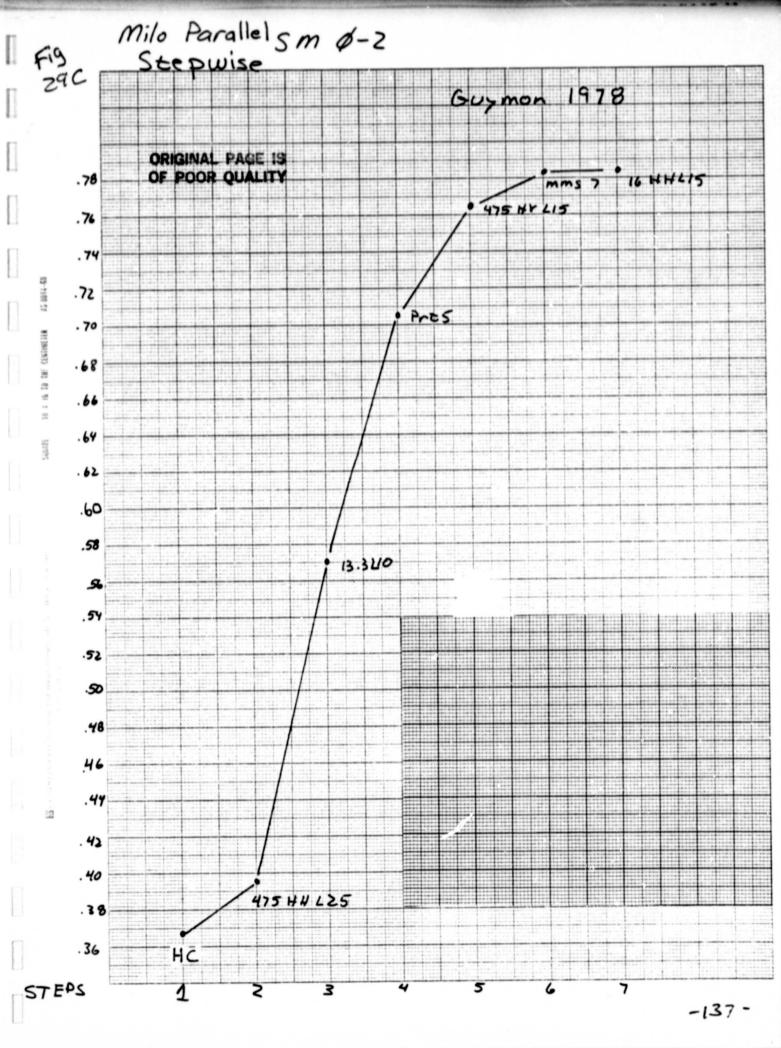


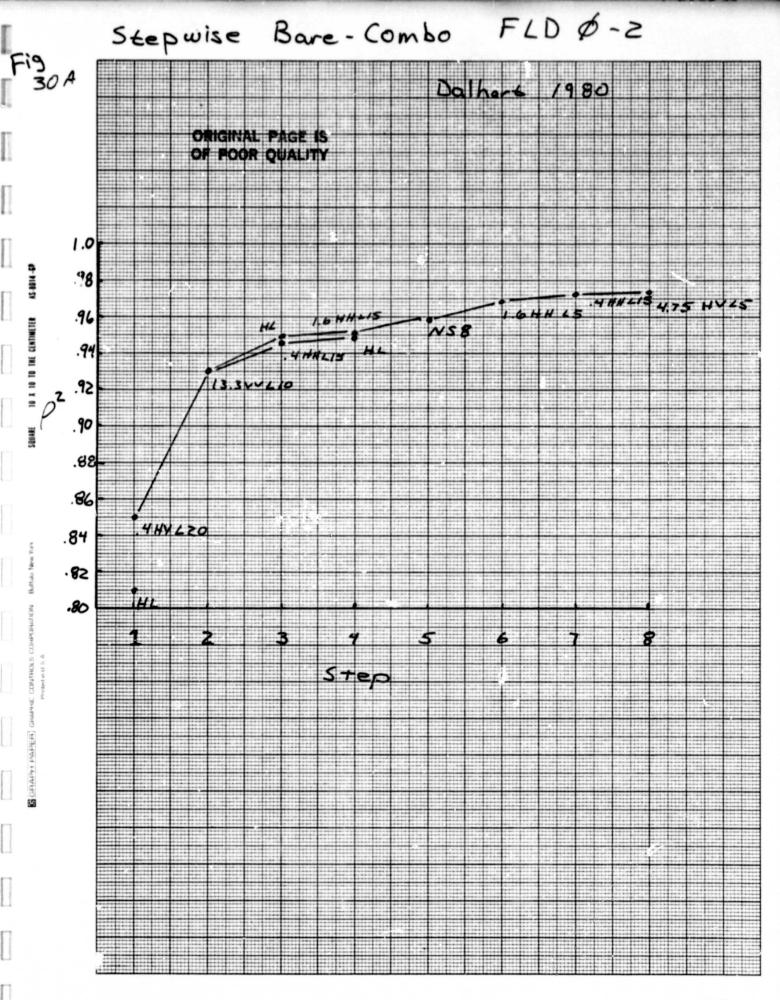
#### 2.14 Stepwise Regressions

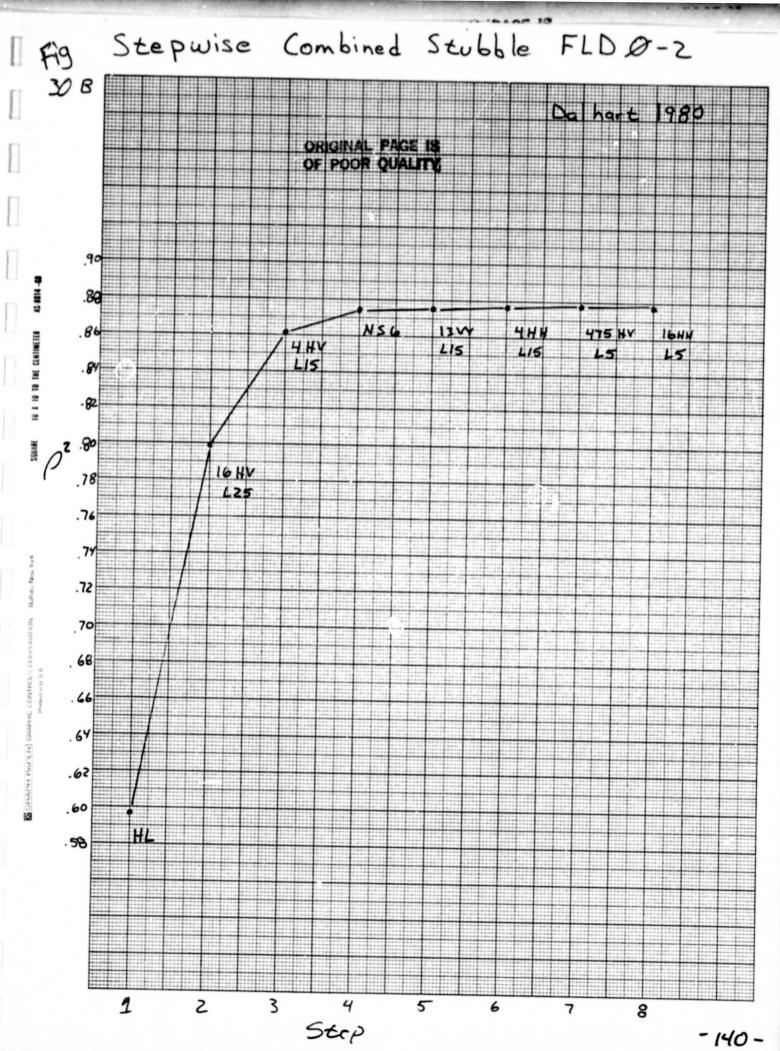
An overview of the stepwise regressions is presented parametric in cover types (Figures 29 and 30). These are summarized in the sequence of the variable selected and the combined correlation coefficient. The various steps reflect the maximum correlation coefficients successively as highest correlating sets of variables were determined. The regressions were determined primarily for the SMO2 (Guymon) and FLD 02. (Dalhart) as the dependent variables. The highest correlating sensor channels for each sensor type were used as the source of independent variables.

The microwave radiometer (HC in Guymon; HL in Dalhart) consistently appears in the stepwise regressions for all cover types. Similarly evident are the 13.3 Ghz VV and 1.6 Ghz HV sensors. Note that the greatest step increases of correlation for added sensors occurs for the Guymon milo parallel (but not perpendicular) data and the Dalhart stubble data.





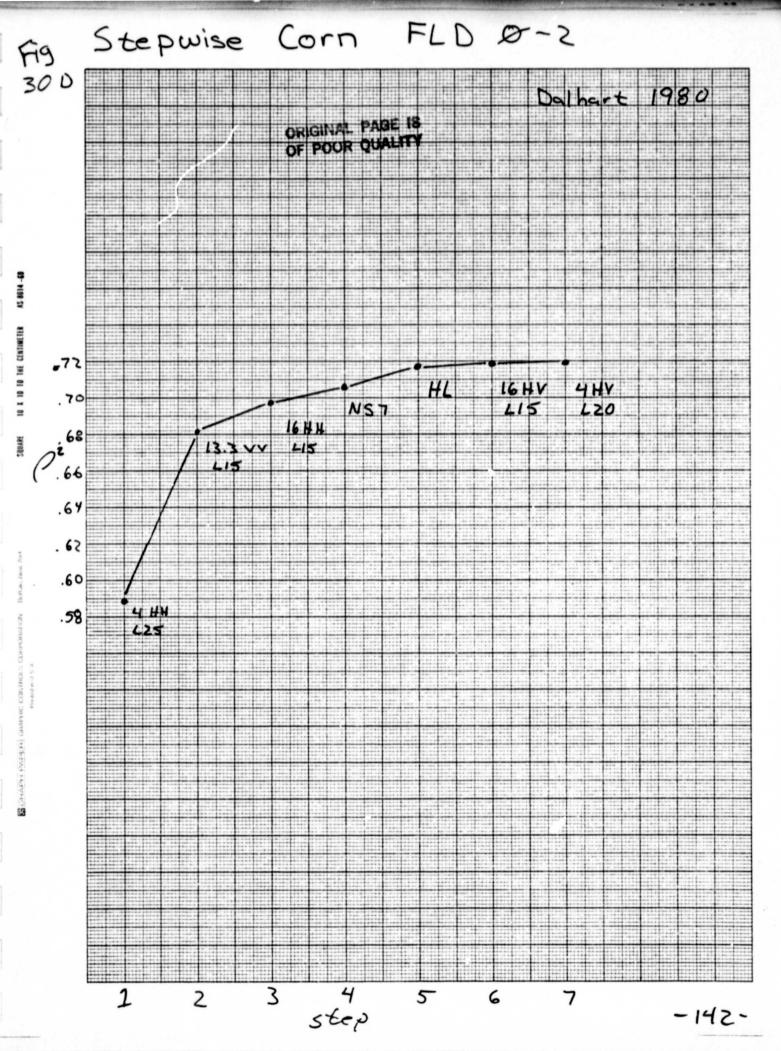




Stepwise Disked Stubble FLD 0-2 Fig 30C ORIGINAL PAGE IS OF POOR QUALITY .92 444 16HH 90 16 HV 475 HV 88 NS 6 . 86 13.2 VV . 80 4 47 .78 415 .76 74 .72 HL .70 1

Step

-141-



Elementary Statistics:

VARIABLE

TISTI

STD DEV

MEAN

| *         | Guymon | -Bare STAT                          | ISTICAL ANA        |
|-----------|--------|-------------------------------------|--------------------|
| VARIABLE  | N      | . MEAN                              | SID DEV            |
| B4HHL20   | 97 ,   | -20.85567010                        | <b>5.</b> 16391666 |
| B4HHL25   | 97     | -23-51237113                        | 3.14736192         |
| B4HHL35   | 94     | -31.51914894                        | 2.88892124         |
| B4HHL40   | 83     | -31.49638554                        | 3.30500160         |
| B4HHL45   | 76     | -31.15921053                        | 4-47354230         |
| B4HVL5    | 97     | -25.2000000                         | 2.47718759         |
| B4HVL10   | 97 .   | -28.40824742                        | 2.50219363         |
| B4HVL15   | 97     | -33.67010309                        | 2.05295341         |
| B4HVL20 / | 97     | -36.01649485                        | 3. 95252241        |
| B4HVL25   | . 97   | -40.33505155                        | 3.32431200         |
| B4HVL35   | 94     | -47.60957447                        | 3.04609989         |
| B4HVL40   | 83     | -46.84216867                        | 2.85341560         |
| B4HVL45   | 76     | -46.07105263                        | 3.63456795         |
| B75HHL5   | 38     | 6.60578947                          | 2: 32030710        |
| B75HHL10  | 38     | 1.62789474                          | . 2.23818116       |
| B75HHL15  | 38     | -3.14789474                         | 2.00594543         |
| B75HHL20  | 38     | -6.42131579                         | 1.89023832         |
| B75HHL25  | 38     | -8.10605263                         | 2.23879135         |
| B75HHL35  | 36     | -11.5844444                         | 2,85917015         |
| B75HHL40  | 32     | -13.03250000                        | 2.68541341         |
| B75HHL45  | 27     | -14.67222222                        | 2.46980431         |
| B75HVL5   | 38     | -4.67763158                         | 1.31262772         |
| B75HVL10  | 38     | -9.35078947                         | 1.00482991         |
| 875HVL15  | 38     | -15-64657895                        | 1.33195300         |
| 875HVL20  | 3.8    | -17-94947368                        | 1.92753441         |
| B75HVL25  | 38     | -20.01657895                        | 2.16423668         |
| 975HVL35  | 36     | 24.03333333                         | 2-50279843         |
| 875HVL40  | 32     | -24.0043750C                        | 2.81980203         |
|           |        | ORIGINAL PAGE IS<br>OF POOR QUALITY |                    |

| VARIABLE | N    | -Bare        | STD DEV      |
|----------|------|--------------|--------------|
| B75HVL45 | 27   | -26.64688889 | 2.38549194   |
| BMMS4    | 50   | 0.8968000C   | 0.48212303   |
| BMMS7    | 50   | 1.02240000   | 0.54048942   |
| BMMS8    | 50   | 1.1194000C   | 0.56257575   |
| BMMS9    | 50   | 2.4018000C   | 1.18506297   |
| BMMS11   | 108  | 28.10981481  | 6.48530344   |
| BHL      | 51   | 266.00392157 | 19: 41664194 |
| BAC      | 54   | 273.99814815 | 18.54157481  |
| вис ,    | 54   | 278.59814815 | 18.81073049  |
| BFLD02   | 96   | 6.4375000C   | 4.57455779   |
| BFLD25   | 96   | 7.83645833   | 4. 55 155543 |
| BSM02    | 98   | 6.30816327   | 4.48669680   |
| BSN 25   | - 98 | 7.54591837   | 4.50113773   |
| BSN59    | 98   | 9.87346939   | 4.15043287   |
| BSM915   | 98   | 16.53061224  | 3.84328060   |
| BSM015   | 98   | 12.50408163  | 3.47544904   |
| BSN1530  | 98   | 23.93469388  | 3_97790553   |
| BSM3045  | 98 ( | 25.0£77551C  | 4.75627129   |
| BPRT5    | 108  | 27.69259259  | 6.33701046   |

| Correlation | 00 | Sensors | Vs | Soil Moisture |
|-------------|----|---------|----|---------------|
|-------------|----|---------|----|---------------|

| Guymon Bare          |                   |          |            |            |             |       |            |            |              |  |  |
|----------------------|-------------------|----------|------------|------------|-------------|-------|------------|------------|--------------|--|--|
|                      | SMI               |          | MON        |            |             |       |            | FLD        |              |  |  |
|                      | ØZ                | 25       | 59         | 9 15       | Ø 15        | 15 30 | 36 45      | ØZ         | 25           |  |  |
| VV<br>13.345         | .45               | .54      | .59        | .37        | .49         | 707   | -28        | ,50        | .55          |  |  |
| VV<br>13.340         | 56                | .63      | -67        | .34        | .60         | 7/3   | .35        | .64        | .67          |  |  |
| 13.3445              | .01               | 7.24     | 731        | 7.0Z       | 7.05        | .71   | <u>.52</u> | .08        | 18           |  |  |
| HH<br>1.64/5         | <u>.37</u>        | .21      | -14        | .07        | -36         | .03   | :09        | <u>.51</u> | .31          |  |  |
| HH<br>1.6640         | .08               | 7.07     | 7./5       | 7./2       | .08         | .16   | ./٩        | .17        | .01          |  |  |
| 1.6610<br>HV         | .52               | .39      | .22        | 70.        | .3≥         | .01   | -04        | .59        | .47          |  |  |
| 1.6125<br>HV         |                   | .28      | .07        | 0.0        | , 36        | 2     | .16        | .57        | .37          |  |  |
| 1.6640<br>HV         | .45               | .22      | .oz<br>-22 | -25        | .32         | .17   | .17        | .58        | .40          |  |  |
| 1.6645<br>HH         | .41               | .10      |            |            | .13         |       | -31        | .57        | .32          |  |  |
| 445<br>HH            | <u>./9</u><br>∹23 | -29      | .3Z        | .05<br>-05 | 7.16        | 725   | 727        | -z,        | 7/7          |  |  |
| 44/5<br>HH           | 7.48              | 747      | 7.36       | -14        | 732         | .06   | .IZ        | -48        | 747          |  |  |
| .4140<br>HH<br>.4145 | <del></del> 45    | -50      | 7.47       | 726        | 736         | .07   | ,20        | 741        | 46           |  |  |
| #V<br>.44/5          | .18               | .32      | .41        | .22        | .26         | -,21  | 7.30       | .22        | . <u>3</u> 1 |  |  |
| HV<br>4145           | -53               | .Z6      | רַכָּרָ    | 715        | 711         | .07   | .16        | 712        | 7.16         |  |  |
| HH<br>4.7515         | .5 I              | .54      | 64         | .40        | .57         | -28   | 7.5 z      | .48        | . <u>50</u>  |  |  |
| ##<br>4.75 L 15      | .54               | .46      | ,49        | .35        | .61         | -01   | 7.21       | .58        | .47          |  |  |
| HH<br>4.75 L45       | .34               | .06      | 7.08       | .03        | .25         | .39   | .36        | .48        | .18          |  |  |
| HV<br>4.75L10<br>HV  | -69               | .54      | .35        | .23        | .44         | .15   | רס.        | .68        | .5 7         |  |  |
| 4.75135<br>MMS       |                   | ./4<br>  | 7.03       | .01        | .26         | .50   | .53        | .45        | .23          |  |  |
| MEMR                 |                   | 738      | 722        | 707        | -30         | -08   | 7.16       | 751        | 7.42         |  |  |
| HC                   | -80<br>-46        | 74<br>38 | 761<br>-22 | 7.25       | -64<br>-:28 | 113   | .31        | -87        | -41          |  |  |
|                      | . 76              | .96      | 35.7       | 7,01       | 56          | . 1 5 | .18        | +∞         |              |  |  |
|                      |                   |          |            |            |             |       |            |            |              |  |  |

Table

# Single Variable Regressions for SM Ø-2 Guymon Bare

| Independent<br>Variable | Intercept         | Coefficient    | RZ    | S.E.E. |  |
|-------------------------|-------------------|----------------|-------|--------|--|
| 13.3VV L(0              | 7.25              | .947           | .31   |        |  |
| 1.6 HH L15              | 13.89             | .624           | .138  |        |  |
| 1.6HVL10                | 41.33             | 1.65           | .272  |        |  |
| .444125                 | -6.94             | 57             | .156  |        |  |
| .4HVL15                 | 20.87             | .429           | .033  |        |  |
| 4.75 HH L15             | 11.2              | 1.42           | Z92.  | •      |  |
| 4.75HVL10               | 37.3 <del>9</del> | 3.30           | .478  |        |  |
| MMS 4                   | 7.49              | <b>-</b> /. ≥o | .014  |        |  |
| MMS 7                   | 7.20              | 789            | .007  |        |  |
| MMS 8                   | 7.48              | 718            | .0069 |        |  |
| MMS 9                   | 7.11              | 30             | .005  |        |  |
| MMS 11                  | 15.67             | 7.32           | .207  |        |  |
| MFMR HL                 | 65.95             | <b>2</b> Z     | .567  |        |  |
| MFMR HC                 | 71.51             | 235            | .632  |        |  |
| MFMR VC                 | 71.75             | 23             | .628  |        |  |
| Prt 5                   | 16.00             | 339            | .207  |        |  |

| Element    | tary St | Mon - Milo Perp      | PISTICAL ANAL  |
|------------|---------|----------------------|----------------|
| VARIABLE . | K       | MEAN                 | SID DEV        |
| R13L5      | 67      | 4.93283582           | 3.53109083     |
| R13L10     | 61      | 3.70491803           | 3. 26 16 16 48 |
| R13L15     | 65.     | 0.06615365           | 2.33407349     |
| R13L20     | 67      | -2.74029851          | 1.59896365     |
| R13L25     | 66      | -2-01666667          | 1.47893760     |
| R13135     | 65      | -6.38307692          | 1,26769590     |
| R13L40     | 60      | -7.46666667          | 1. 13535878    |
| R13L45     | 55      | -8.06363636          | 1.43105292     |
| R16HHL5    | 32\     | 0.3375000C           | 4.23051511     |
| R16 HHL10  | 32      | -0.4437500C          | 3.93830957     |
| R16HHL15   | 32      | -1.3500000C·         | 3-45085310     |
| R16HHL20   | 32      | <b>-2.</b> 56875000  | 4.33473871     |
| F16HHL25   | 31      | -5-11612903          | 3-88776686     |
| R16HHL35   | 3.0     | -7.31333333          | 3.08486107     |
| R16HHL40   | 28      | -10.24285714         | 2.32130688     |
| R16HHL45   | 27      | -13-45185185         | 3.40456372     |
| R16HVL5    | 32      | -16.5875000C         | 1.82115702     |
| R16HVL10   | 32      | -16-9750000C         | 2.03565001     |
| R16HVL15   | 32      | -15.6718750C         | 2.41062626     |
| R16HVL20   | 32      | -15:3875000C         | 2.61580186     |
| R16HVL25   | 32      | -15.7531250C         | 2.61533744     |
| R16HVL35   | 30      | -17-36666667         | 1.99954018     |
| R16HVL40   | 28      | -18.6321428 <i>€</i> | 1.98215251     |
| 216HVL45   | 27      | -19_6555556          | 1.92899602     |
| 34HHL5     | 67 .    | -12.98208955         | 3.324,15063    |
| R4HHL10    | 67      | -14.63134328         | 3.48843149     |
| R4HHL15    | 6.7     | -12-72985075         | 5.01748503     |
|            |         | ORIGINAL PAGE        | <b>IS</b>      |

| VARIABILE | N       | -Milo Perp. STA | STD DE          |
|-----------|---------|-----------------|-----------------|
| RUHHI 20  | 6.7     | -8_34029851     | 7-4446047       |
| R4HHL25   | 67      | -18.49104478    | 3.0762094       |
| P4HHL35   | 65      | -26.81846154    | - 2.7279165     |
| R4HHI4O   | 6.1     | -26.76065574    | 2. 28 E 3 2 3 8 |
| R4ННĻ45   | 57      | -22.19824561    | 3-0899890       |
| R4HVL5    | 67      | -25.65074627    | 3. 2571307      |
| R4HVL10   | 67      | -28-09253731    | 3.2507487       |
| R4HVL15   | 67      | 29.33134326     | 4-1611554       |
| R4HVL20   | 67      | -24.38656716    | 5-9812812       |
| R4HV1.25  | 67      | -33.63134328    | 3.0963913       |
| R4HVL35.  | 65      | -39.81384615    | 3-0614986       |
| R4HVL40   | 61      | -38.57049180    | 2.9782737       |
| RUHVI45   | 56      | -33.75892857    | - 3-3464649     |
| R75HHL5   | 23      | 8.5626087C      | 2.8607774       |
| R75HHL10  | 23      | 5.67652174      | 3, 74 18852     |
| R75HHL15  | <u></u> | 2.33304348      | 3.3816032       |
| F75HHL20  | 23      | -0.07913043     | 3.2779329       |
| P75HHL 25 | 23      | -1.23565217     | 3.4637392       |
| R75HHL35  | 23      | 5.86260870_     | 2.6941657       |
| B75HHL40  | 22      | -7.44681818     | 2.2055263       |
| R75HHL45  | 18      | -9.28055556     | 1.6815520       |
| R75HVL5   | 2.3     | -3_6973913C_    | 1.4879003       |
| R75HVL10  | 23      | -6.65434783     | 1.9807134       |
| R75HVL15  | 23      | -11.17043478    | 1.9179095       |
| R75HVL20  | 23      | -12.24913043    | 2. 0326559      |
| R75HVL25  | 23      | -13.49086957    | 1.8528673       |
| R75HVL35  | 23./    | -16.88434783    | 1.7298340       |
| R75HVL.40 |         | -16.84681818    | 1.9451756       |
|           | •       |                 |                 |

| G                  |           | $\mathcal{C}$ | CYMO       | $\sim$ | Mil        | perp  |            |      |            |      |
|--------------------|-----------|---------------|------------|--------|------------|-------|------------|------|------------|------|
|                    | Sm<br>Ø 2 | 2 5           | 5 9        | 9 15   | Ø 15       | 15 3d | 3045       | FLD  | 2.5        |      |
| VV<br>13.3410      | 70        | .58           | .57        | .57    | .49        | .23   | .18        | .76  | .64        |      |
| 13.3 LIS           | .65       | ,58           | .52        | .49    | .44        | .22   | ss.        | .67  | .62        |      |
| VY<br>13.3L25      | .49       | .55           | .48        | .37    | .37        | .23   | .25        | 44   | .54        |      |
| HH<br>1.645        | .71       | 68            | 61         | .51    | .51        | .28   | .28        | .70  | .69        |      |
| 1.6410             | .70       | .58           | .56        | .52    | .50        | .28   | .24        | .71  | ,58        |      |
| HH<br>1.6425       | .61       | .61           | ,54        | .41    | .46        | .30   | .32        | .63  | .64        |      |
| HH<br>1.6435       | ,37       | .50           | .41        | .20    | .39        | .24   | .35        | .29  | .45        |      |
| HV<br>1.615        | .78       | .72           | .70        | .72    | .64        | .48   | .43        | .70  | .68        |      |
| 1.6LZO             | ,78       | .68           | .66        | .7/    | .63        | .49   | ,44        | .74  | .67        | 0.00 |
| HV<br>1.6625<br>HV | .77       | .69           | .70        | .73    | .70        | .57   | .55        | .73  | .67        |      |
| 1.61.40            | .68       | .58           | .62        | .67    | .64        | .54   | .56        | .59  | .53        |      |
| 4 LZO              | -45       | -30           | 7.30       | - 46   | -27        | -15   | - 10       | -,5Z | -38        |      |
| 4225<br>HV         | -12       | .06           | .02        | -15    | 09         | 7/7   | - 15       | 7/3  | .03        |      |
| 4420               | 746       | 7.39          | 7.34       | 741    | -30        | -16   | 7./4       | 754  | -48        |      |
| 4425               | -35       | 731           | -,24       | 726    | :3t        | -30   | -34        | -40  | 739        |      |
| 4.75LZ5<br>##      | .65       | .72           | .64        | .63    | .62        | .48   | .57        | .57  | .64        |      |
| 4.75L45<br>HV      | .68       | .81           | ,75        | ,57    | .66        | .54   | .61        | .63  | .78        |      |
| 4.75 L5<br>HV      | .68       | .65           | .61        | .62    | .54        | .37   | .31        | .64  | .62        |      |
| 4.75225<br>MMS     | -57       | -50           | .57<br>-46 | .56    | .50<br>-52 | .33   | .36<br>-44 | .55  | .57        |      |
| MEMR               | -90       | -82           | -79        | -75    | 778        | -64   | -65        | -89  | -58<br>-83 |      |
| MEMR               | -84       | 75            | -,70       | -65    | -66        | -43   | -40        | 784  | -80        |      |
| MAMR               | -85       | -78           | -72        | -66    | -68        | -45   | -42        | -85  | -81        |      |
| Pr                 | 7,62      | 755           | 750        | -49    | -56        | 749   | -51        | 765  | -,61       |      |

### Single Variable Regressions for SM Ø-2 Grymon - Milo perpendicular

| Independent<br>Variable | Intercept | Coefficient | RZ            | S.E.E. |
|-------------------------|-----------|-------------|---------------|--------|
| 13.300210               | 12.37     | 1.72        | .488          |        |
| 1.6 HH L5               | 19.1/     | 1.40        | .508          |        |
| 1.6 HY L5               | 73.57     | 3.31        | .60           |        |
| .4 HH LZO               | 14.08     | 51          | .206          |        |
| .4HVLZO                 | 3,53      | 62          | .214          |        |
| 4.75 44 125             | 19.43     | 1.98        | .419          |        |
| 4.75 HV L5              | 31.49     | 3.62        | .463          |        |
| MMS 4                   | 21.13     | - 5.47      | .025          |        |
| MMS 7                   | 17.31     | .76         | .04           |        |
| MMS 8                   | 20.79     | ~2.55       | 50.           |        |
| MMS 9                   | 20.79     | 619         | 50.           |        |
| MMS 11                  | 49.35     | -1.26       | .3 <i>5</i> 8 |        |
| MFMR HL                 | 184.44    | 7.62        | .80           |        |
| MFMR HC                 | 184.70    | 61          | .73           |        |
| MFMR VC                 | 186.33    | 60          | .71           |        |
| Prt5                    | 50.69     | -1.37       | .385          |        |

| Table<br>11 (con4)                                       | VARIABLE    | Gizmon - Milo | Par. MEAN        | STD DEV       |
|----------------------------------------------------------|-------------|---------------|------------------|---------------|
|                                                          | ": R75HVL45 | 20            | -20.91100000     | 2.45448011    |
|                                                          | RMMS4       | 31            | 0.73967742       | 0.37178384    |
| <b>(</b> 5                                               | RMM S7      | 31            | 0.67645161       | 0.37617858    |
| d<br>d                                                   | RMMS8       | 31            | 1.12935484       | 0.48288671    |
|                                                          | RNNS9       | 31            | 3.37516129       | 1-29916350    |
|                                                          | RMMS11      | 70            | 25.46085714      | 4.40484672    |
| 7                                                        | RHL         | 35            | 270.34285714     | 12.90862196   |
|                                                          | RVC         | 36            | 274-18055556     | . 12.47561781 |
|                                                          | RHC         | 36            | 277.41944444     | 13.07127318   |
|                                                          | RFLD02      | 70            | 9.69428571       | 6.57945607    |
| 10 16 18E CENTRETTE                                      | RFLD25      | 70            | 12-83142857      | 5.99423740    |
|                                                          | R SMO2      | 72            | 9.7055556        | 6.57007490    |
|                                                          | RSM25       | 72            | 12.92083333      | 6.34534181    |
|                                                          | R SM 59     | 7.2           | 16.68333333      | 6.39830523    |
| <b>t</b> 5                                               | R SM91 5    | 72            | 21.19583333      | 6.26698116    |
|                                                          | . RSM015    | 72            | 17.66250000      | 5.63718633    |
| Bulfala New York                                         | R SM1-530   | 72 .          | 23-18750000      | 4-69716539    |
| **                                                       | RSM3045     | 72            | 23.93194444      | 3.94268181    |
| 1PGRATION                                                | RPRT5       | 72            | 24.91527778      | 4.17263587    |
| GERAPH PAPER] GRAPHIC CONTROLS CORPORATION Puridan U.S.A |             |               |                  |               |
| <u>аарен</u> ] снаРн                                     |             |               | PRIGINAL PAGE IS |               |
| знден (                                                  |             |               | F POOR QUALITY   |               |
|                                                          |             |               |                  |               |
|                                                          |             |               |                  |               |
| Li .                                                     |             |               |                  |               |

| Guymon Milopar  |            |            |                                         |            |            |            |            |              |      |  |
|-----------------|------------|------------|-----------------------------------------|------------|------------|------------|------------|--------------|------|--|
|                 | SM         | 7 5        | 5 9                                     | 9 15       | Ø 15       | 15 30      | 30 45      | FLD          | 2 5  |  |
| 77<br>13.32/0   | .42        | .45        | ,43                                     | ,35        | ,43        | ,2,1       | .25        | .43          | .49  |  |
| VV<br>13.3440   | .10        | .01        | .09                                     | .35        | .21        | .46        | .38        | .13          | .05  |  |
| VV<br>13.3120   | .22        | .11        | .15                                     | .35        | .27        | 44         | .36        | ,25          | .66  |  |
| HH<br>1.64/5    | .54        | .52        | .52                                     | .48        | .57        | .40        | .47        | .56          | .57  |  |
| 1.6420          | .57        | .41        | .42                                     | .5Z        | .53        | .54        | .54        | .52          | .45  |  |
| HH<br>1.64 25   | .48        | 34         | .36                                     | .59        | .50        | .58        | .58        | .48          | .37  |  |
| HV<br>1.6445    | .47        | .26        | .22                                     | 41         | .40        | .59        | .47        | .48          | .31  |  |
| ##<br>## 35     | 19         | 7,05       | .03                                     | 7.03       | 03         | -08        | 7.03       | -52          | 710  |  |
| 4 445<br>HV     | 18         | -16        | 07                                      | .01        | 05         |            | .05        | 721          | 7.2/ |  |
| 4415<br>HV      | 05         | 0.0        | .05                                     | 10         | .03        | 16         | 09         | -03          | .02  |  |
| .4120<br>HV     | -19        | -20        | 7/3                                     | 7.13       | -10        | -,09       | -08        |              |      |  |
| 4 15'5<br>HH    | -10        | - 23       | 7,18                                    | .oz        | 06         | .26        | .)6        | 709          | -24  |  |
| 4.7515<br>16H   | ,24        | .33        | .30                                     | .05        | .21        | :16        | 707        | .23          | .33  |  |
| 4.75 L 25<br>HH | ,39        | .25        | .27                                     | .48        | ,42        | .56        | .49        | .39          | -,27 |  |
| 4.751.45<br>HV  | 50         | .38        | ,37                                     | .57        | ,52        | .70        | .59        | .52          | .41  |  |
| 4.75 L 15<br>HV | ,38        | .26<br>.41 | .23<br>.40                              | .36<br>.58 | .35        | .36        | .30        | .38          | .29  |  |
| 4.751.45<br>MMS | .52<br>.21 | .39        | .36                                     | .52<br>.tt | .53<br>.27 | .68<br>-08 | .56        | .53          | .43  |  |
| MMS             | -09        | .01        | .08                                     | .08        | .07        | .05        | 0.0        | .2.2<br>-,15 | .33  |  |
| MFMR            | -56        | -56        | -43                                     | ->4        | -,38       | 08         | .øş<br>:/> | 759          | 62   |  |
| MFMR<br>HC      | 48         | .so        | -37                                     | <br>15     | -32        | 703        | -03        | -49          | -54  |  |
| Pre             | -76        | -,16       | -,10                                    | -,14       | 7,74       | -16        | 16         | -30          | 7.23 |  |
|                 |            |            | , , , , , , , , , , , , , , , , , , , , |            |            |            |            |              |      |  |
|                 |            |            |                                         |            |            |            |            |              |      |  |

Table

#### Single Variable Regressions for SM &-Z Guymon - Milo parallel

| Independent<br>Variable | Intercept | Coefficient  | R2   | <u>S.E.E.</u> |
|-------------------------|-----------|--------------|------|---------------|
| 13.3VVL10               | 11.84     | 950.5        | .178 |               |
| 1.6 HH L15              | 32.70     | 1.679        | .296 |               |
| 1.6HVL15                | 33.00     | 1.14         | .186 |               |
| .4HHLIO                 | 3.35      | 32           | .01  |               |
| .4HVLZ0                 | -5.47     | 45           | .03  |               |
| 4.75 HH LZS             | 21.93     | 1.52         | .149 |               |
| 4.75HVL15               | 26.92     | 1.30         | .141 |               |
| MMS 4                   | 5.99      | 3.55         | .05  |               |
| MMS 7                   | 5.85      | 4.08         | .07  |               |
| MMS 8                   | 6.03      | 2.28         | .03  |               |
| MMS 9                   | 8.61      | .002         | 0    |               |
| MMS 11                  | 18.70     | <b> 347</b>  | .05  |               |
| MFMR HL                 | 85.45     | 28           | .31  |               |
| MFMR HC                 | 79.48     | <b>-</b> .25 | .23  |               |
| MFMR VC                 | 76.10     | PES          | .22. |               |
| Prt 5                   | 19.78     | 40           | .06  |               |

| E km e             | Elementary Statistics:  Gymon-Alfalfa STATISTICAL |                                  |            |  |  |  |
|--------------------|---------------------------------------------------|----------------------------------|------------|--|--|--|
| VARIABLE           | N                                                 | MEAN                             | STD DEV    |  |  |  |
| A13L5              | 40                                                | 2.54750000                       | 3.09764075 |  |  |  |
| A13L10             | 39                                                | -1:43589744                      | 1.86568559 |  |  |  |
| A13L15             | 40                                                |                                  | 44147360-  |  |  |  |
| A13L20             | 40                                                | -8.22250000                      | 1.25483424 |  |  |  |
| A13L25             | 40                                                | · -7.44000000                    | 1.11166311 |  |  |  |
| A13L35             |                                                   | -10-8000000                      | 1.10085961 |  |  |  |
| A13L40             | 36                                                | -11.26111111                     | 1.23248362 |  |  |  |
| A13L45             | 31                                                | -11.02258065                     | 1.51936603 |  |  |  |
| A16HHL5            | 20                                                | -1.64500000                      | 4-66910056 |  |  |  |
| , <b>A1</b> 6HHL10 | 21                                                | -8.99047619                      | 3.03659427 |  |  |  |
| A16HHL15           | . 21                                              | -12.38571429                     | 2.94385559 |  |  |  |
| A16HHL20           | 21                                                | =14.33809524                     |            |  |  |  |
| A16HHL25           | 21 ,                                              | -16.50952381                     | 2.69534873 |  |  |  |
| A16HHL35           | 19                                                | -19-00000000                     | 2.88925211 |  |  |  |
| A16HHL40           | <u>: 17 · · · · · · · · · · · · · · · · · · </u>  | -21.04705882                     | 2.72972472 |  |  |  |
| A16HHL45           | 16                                                | -22.537500C0                     | 2.62827573 |  |  |  |
| A16HVL5            | 21                                                | -17.23809524                     | 1.86533541 |  |  |  |
| A16HVL10           | 21                                                | -20.33333333                     | 1.95661272 |  |  |  |
| A16HVL15           | 21                                                | -21.97142857                     | 2.50841441 |  |  |  |
| A16HVL2C           | . 21                                              | -21.64285714                     | 2.55667194 |  |  |  |
| `A16HVL25          | 21                                                | -23.47142857                     | 2-81818077 |  |  |  |
| AleHVL35           | 19                                                | -24.93157895                     | 2.73273421 |  |  |  |
| A16HVL40           | 17                                                | -26.45882353                     | 2.83770568 |  |  |  |
| A16HVL45           | 16                                                | <b>-27.</b> 32500000             | 2.75426941 |  |  |  |
| A4HHL5             | 40                                                | -8.03500000                      | 5.45957404 |  |  |  |
| A4HHL10            | 40                                                | -15.87500000                     | 2.75613535 |  |  |  |
| A4HHL15            | 40                                                | -20-52000000                     | 2.38157457 |  |  |  |
|                    |                                                   | ORIGINAL PAGE IS OF POOR QUALITY |            |  |  |  |

| ble<br>con't)   | · · · · · · · · · · · · · · · · · · ·    | 6                                                                                                                                                                                                                               | - Alfalfa STA    | TISTIC'AL AN |
|-----------------|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|--------------|
| SONT)           | VARIABLE                                 | N                                                                                                                                                                                                                               | MEAN             | STD DEV      |
|                 | A4HHL20                                  | 40                                                                                                                                                                                                                              | -23.77500000     | 3.18044909   |
|                 | A4HHL25                                  | 40                                                                                                                                                                                                                              | -26.00000000     | 4.29239040   |
|                 | A4HHL35                                  | 38                                                                                                                                                                                                                              | -33.08947368     | 3.43289252   |
|                 | A4HHL4Q                                  |                                                                                                                                                                                                                                 | -33.11666667     | 3.44437430   |
|                 | A4HHL45                                  | 35                                                                                                                                                                                                                              | -33.56285714     | 3.14821011   |
| di              | A4HVL5                                   | .40                                                                                                                                                                                                                             | -20.59000000     | 3.54768252   |
| **              |                                          | 40                                                                                                                                                                                                                              |                  | 2.05732587   |
|                 | A4HVL15                                  | 40                                                                                                                                                                                                                              | -30.85000000     | 3.02171627   |
|                 | A4HVL2C                                  | 40                                                                                                                                                                                                                              | -34.26500000     | 3.46073580   |
|                 |                                          | 40                                                                                                                                                                                                                              | -39-11500000     | 4-25269447   |
|                 | A4HVL35                                  | 38                                                                                                                                                                                                                              | -45.82368421     | 3.02077797   |
|                 | A4HVL40                                  | 36 ,                                                                                                                                                                                                                            | -45.38333333     | 3.53331087   |
|                 | A4HVL45                                  | 35                                                                                                                                                                                                                              | -45.00285714     |              |
|                 | A75HHL5                                  | 17                                                                                                                                                                                                                              | 7.56941176       | 2.25415858   |
|                 | A75HHL10                                 | 16                                                                                                                                                                                                                              | 1.05812500       | 1.66138183   |
|                 | - A75HHL15                               | 1.7                                                                                                                                                                                                                             | -3.55000000      | 1+81000691   |
|                 | A75HHL20                                 | 17                                                                                                                                                                                                                              | -6.58000000      | 1.88034239   |
|                 | A75HHL25                                 | 17                                                                                                                                                                                                                              | -7.89235294      | 2.15008584   |
| <b>≪</b> ⊹      | - A-75HHL35                              | 1.5                                                                                                                                                                                                                             | -10+97200000     | 2+57359448   |
| भिष्यक्षे का धि | A75HHL4C                                 | 15                                                                                                                                                                                                                              | -12.41800000     | 2.20269705   |
| a               | A75HHL45                                 | 13                                                                                                                                                                                                                              | -13.86769231     | 2.25908593   |
|                 | - A 7-5HVL 5                             |                                                                                                                                                                                                                                 | 4.00411765       | 0.88684172   |
|                 | A75HVL10                                 | 17                                                                                                                                                                                                                              | -7.62352941      | 1.00209743   |
| <u> </u>        | A75HVL15                                 | 17                                                                                                                                                                                                                              | -13.13882353     | 1.35285754   |
| Cira            | _A75HVL20                                |                                                                                                                                                                                                                                 | -14.95117647     | 1-59970654   |
|                 | A75HVL25                                 | 17                                                                                                                                                                                                                              | -16.57541176     | 1.81486043   |
|                 | A75HVL35                                 | 15                                                                                                                                                                                                                              | -19.69333333     | 2.14307078   |
|                 | A75HVL4C                                 |                                                                                                                                                                                                                                 | -1.9.786C00C0    | 2+35266354   |
|                 | · · · · · · · · · · · · · · · · · · ·    | s                                                                                                                                                                                                                               | ORIGINAL PAGE IS |              |
|                 | en e | e de la companya de<br>La companya de la co | OF POOR QUALITY  | -159-        |

| Table<br>4(co.4)                                            |          | · 6-4-4                                 | n-Alfalfa "STAT                     | ISTICAL AN    | A L              |
|-------------------------------------------------------------|----------|-----------------------------------------|-------------------------------------|---------------|------------------|
|                                                             | VARIABLE | N                                       | MEAN                                | STD DEV       | *                |
|                                                             | A75HVL45 | . 13                                    | -22.04615385                        | 1.74967873    |                  |
| <b>f*</b>                                                   | AMMS4    | . 24                                    | 0.55666667                          | 0.21997365    |                  |
|                                                             | AMMS7    | 24                                      | 1.02125000                          | 2.15448433    |                  |
|                                                             |          | 24                                      | 1.26125000                          | 0.50428005    | en seens to      |
| l ;                                                         | AMMS9    | 24                                      | 4.60541667                          | 1.95066762    | .                |
|                                                             | AMMS11   | 48                                      | 23.63708333                         | 3.50138633    | *                |
|                                                             | AHL      |                                         | 25C•95652174                        | 12.56063274   |                  |
|                                                             | AVC      | 24                                      | 271.85000000                        | 10.77238821 . | •                |
|                                                             | AHC      | 24                                      | 276.56250000                        | 11.02080296   | eder if at passe |
| # # # # # # # # # # # # # # # # # # #                       | _AFLD02  | - 44                                    | 17-41818182                         | 6-21046651    |                  |
|                                                             | AFLD25   | . 44                                    | 20.82127273                         | 5.05662649    | •                |
| . serve                                                     | A SMO2   | 44                                      | 16.99090909                         | 6.65700604    | ,                |
|                                                             | ASM25    | . 44                                    | 20.28863636                         | 5.6170097.1   | mer vices        |
|                                                             | ASM59    | 44                                      | 21.27500000                         | 4.95463725    |                  |
| -                                                           | ASM915   | 44                                      | 20.60227273                         | 4.24338000    |                  |
| Hew York                                                    | ASM015   | 44                                      | 20-18636364                         | 4.72955039    |                  |
| Buttako                                                     | ASM1530  | 44                                      | 21.11136364                         | 3.03362673    | •                |
| DRATION                                                     | ASM3045  | ; 44                                    | 19.11590909                         | 2.24964526    |                  |
| S.A.                                                        | APRT5    | 48                                      | 22.76041667                         | 3.49533060    | And the same to  |
| CONTRC                                                      |          |                                         |                                     |               |                  |
| (CRAPH PARED) GRAPHIC CONTROLS CORPORATION Proted of U.S. A |          | •                                       |                                     |               | -                |
| GRAPH PA                                                    |          |                                         | ORIGINAL PAGE IS<br>OF POOR QUALITY | A             |                  |
|                                                             |          | *************************************** |                                     |               |                  |
| A September 201                                             |          |                                         |                                     |               |                  |
|                                                             |          |                                         |                                     |               |                  |

| .3 LIS          | SM<br>Ø 2 |      |     |              |       | *****    | *********** | 11211 |     |
|-----------------|-----------|------|-----|--------------|-------|----------|-------------|-------|-----|
| V<br>.3 LI5     | 56        | 25   | 59  | 9 15         | ø 15  | 1530     | 3¢ 45       | øΖ    | 25  |
|                 | •         | .66  | .63 | .62          | 60    | .56      | .67         | .59   | .69 |
| H 5             | .25       | .46  | .42 | .42          | .34   | .59      | 74          | .23   | .44 |
| H               | .70       | .73  | 71  | hi           | .70   | 46       | .34         | .64   | .69 |
| 6L15            |           |      |     |              |       |          |             |       |     |
| 6 445           | .82       | .74  | .73 | .74          | .75   | .34      | .19         | .76   | .69 |
| V<br>64 15<br>V | .79       | .76  | .78 | דר.          | .79   | .45      | .10         | .78   | .75 |
| V<br>6 L 45     | .81       | .82  | 82  | .81          | .83   | .53      | .29         | .83   | .80 |
| H               | .15       | .22  | .19 | 20           | .22   | .15      | -03         | .16   | .22 |
| 1425            |           |      |     |              | 14    | .35      | .41         | 01    |     |
| 145             | .07       | .20  | .15 | .16          |       | .57      |             | .01   | .15 |
| 1120            | .16       | .22. | .17 | .16          | 17    | .05      | 706         | .10   | .15 |
| 1               | .21       | .24  | .20 | .21          | .23   | .20      | .01         | ے۱۔   | .15 |
| H               | .81       | .79  | .76 | .76          | .79   | .60      | .37         | .79   | .76 |
| 75 L Z5<br>H    |           |      |     | -0           |       |          |             | ,,,   |     |
| 75 645<br>V     |           | .78  | .78 | .78          | .79   | .70      | .43         | .64   | .62 |
| 75 420          | .75       | .74  | .74 | .75          | .76   | .71      | .44         | .70   | .70 |
| 1M S            | 58        | -56  | -60 | -63          | 761   | -46      | 7.36        | -68   | 63  |
| FMR             | 79        | -78  | -82 | -83          | -81   | 65       | -56         | .84   | -83 |
| IFMR<br>H C     | -62       | -61  | -64 | -66          | -65   | 55       | -47         | 7.73  | -70 |
| 5               |           |      |     |              |       |          |             |       |     |
|                 |           |      |     |              |       |          |             |       |     |
|                 |           |      |     |              | NAL P |          |             |       |     |
|                 |           |      |     | <b>77</b> 17 | OOR Q | JALIII I |             |       |     |
|                 |           |      |     |              |       |          |             |       |     |
|                 |           |      |     |              |       |          |             |       |     |
|                 |           |      |     |              |       |          |             |       |     |
|                 |           |      |     |              |       |          |             |       |     |
|                 |           |      |     |              |       |          |             |       |     |

Table 16

1. Mar. of 12.

## Single Variable Regressions of SM Ø-2 Guymon- Alfalfa

| Independent<br>Variable | Intercept     | Coefficient | RZ   | SEE.  |
|-------------------------|---------------|-------------|------|-------|
| 13,3VVL15               | 31.03         | 2.60        | . 3/ |       |
| 1.6 HH L15              | 36.22         | 1.54        | .48  |       |
| 1.6HV 415               | 61.92         | 2.06        | .67  |       |
| .4 HH L5                | 14.26         | 324         | .07  |       |
| .4HVL5                  | 8. <i>8</i> ≥ | 393         | .04  |       |
| 4.75 HH125              | 37.30         | 2.66        | .66  |       |
| 4.75 HV LZO             | 65.13         | 85.8        | .567 | <br># |
| MMS 4                   | 21.55         | -8.69       | 087  |       |
| MMS 7                   | 16.11         | .611        | .04  |       |
| mms 8                   | 19.5          | -5.18       | P50. |       |
| MMS 9                   | 19.00         | 47          | 150. |       |
| MMSII                   | 40.99         | -1.01       | .306 |       |
| MFMR HL                 | 129.07        | 44          | .51  |       |
| MFMRHC                  | 174.22        | <b>57</b>   | .618 |       |
| MFMRVC                  | 170.89        | 55          | .599 |       |
| Prt 5                   | 43.13         | -1.14       | .38  |       |

| ıт | -66 |  |
|----|-----|--|
| Ľ  | 17  |  |

correlation Coefficients: SM VS SM

|                                                     |          |                                          |            |                   | Milp                             | ar                                   |                                 |                                |                                               |   |
|-----------------------------------------------------|----------|------------------------------------------|------------|-------------------|----------------------------------|--------------------------------------|---------------------------------|--------------------------------|-----------------------------------------------|---|
|                                                     | SM       | 2 5                                      | <u>-</u> a | 9 /5              |                                  | 3045                                 | a 15                            | F 2                            | 2 5                                           | 7 |
| SM                                                  | 1.0      | .93                                      | .85        | .72               | .62                              | .62                                  | .90                             | .99                            | .95                                           |   |
| 25                                                  |          | 1.0                                      | .95        | .78               | .60                              | .65                                  | .93                             | .89                            | .97                                           |   |
| <b>5</b> 9                                          |          |                                          | 1.0        | .89               | .73                              | .79                                  | .96                             | .80                            | ,91                                           |   |
| 9 15                                                |          |                                          |            | 1.0               | .94                              | 94                                   | .91                             | .70                            | .74                                           |   |
|                                                     |          |                                          |            |                   | 1.0                              | .97                                  | .81                             | .59                            | .57                                           |   |
| 15-30                                               |          |                                          |            |                   |                                  | 1.0                                  | .84                             | .59                            | .61                                           |   |
| 30 45                                               |          |                                          |            |                   |                                  |                                      | 1.0                             | .88                            | .92                                           |   |
| Ø 15<br>FLD                                         |          |                                          |            |                   |                                  |                                      |                                 | 1.0                            | .95                                           |   |
| 02                                                  |          |                                          |            |                   |                                  |                                      |                                 |                                | 1.0                                           |   |
| 25                                                  |          |                                          |            |                   |                                  |                                      |                                 |                                |                                               |   |
|                                                     |          |                                          |            |                   |                                  | are                                  |                                 |                                |                                               |   |
|                                                     | Sm<br>Ø2 |                                          |            |                   |                                  |                                      |                                 | FLD                            |                                               |   |
|                                                     |          |                                          |            |                   |                                  |                                      |                                 |                                |                                               |   |
| CM                                                  |          | 2 S                                      | 5 9        | 9 15              |                                  | 3645                                 |                                 | 0/2                            | 25                                            |   |
| SM<br>ØZ                                            | 1.0      | 2 5<br>.88                               | .70        | 9 /s<br>.30       | 707                              | - 18                                 | 75                              | .86                            | .85                                           |   |
| \$M<br>Ø 7<br>≥ 5                                   |          | T. 111   11   11   11   11   11   11   1 | .70<br>.90 |                   | 707<br>7.17                      | - 18<br>- 36                         | .75                             | .86<br>.85                     | .85                                           |   |
|                                                     |          | .88                                      | .70        | .30               | 707                              | - 18<br>- 36                         | 75                              | .86<br>.85                     | .85                                           |   |
| 2 5                                                 |          | .88                                      | .70<br>.90 | .30<br>.37        | 707<br>7.17                      | - 18<br>- 36<br>- 41<br>- 28         | .75                             | .86<br>.85                     | .85                                           |   |
| 2 5<br>5 9                                          |          | .88                                      | .70<br>.90 | .30<br>.37<br>.54 | -07<br>-17<br>-13                | - 18<br>- 36<br>- 41                 | .75<br>.81<br>.80               | .86<br>.85                     | .85<br>.97<br>.88                             |   |
| 2 5<br>5 9<br>9 15                                  |          | .88                                      | .70<br>.90 | .30<br>.37<br>.54 | -07<br>-1 <b>7</b><br>-13<br>-62 | - 18<br>- 36<br>- 41<br>- 28         | .75<br>.81<br>.80<br>.72        | .86<br>.85<br>.70              | .85<br>.97<br>.88                             |   |
| 2 5<br>5 9<br>9 15<br>15 36                         |          | .88                                      | .70<br>.90 | .30<br>.37<br>.54 | -07<br>-1 <b>7</b><br>-13<br>-62 | - 18<br>- 36<br>- 41<br>- 28<br>- 88 | .75<br>.81<br>.80<br>.72<br>.22 | .86<br>.70<br>.34              | .85<br>.97<br>.88<br>.35                      |   |
| 2 5<br>5 9<br>9 15<br>15 36<br>36 45                |          | .88                                      | .70<br>.90 | .30<br>.37<br>.54 | -07<br>-1 <b>7</b><br>-13<br>-62 | - 18<br>- 36<br>- 41<br>- 28<br>- 88 | .75<br>.81<br>.80<br>.72<br>.22 | .86<br>.85<br>.70<br>.34<br>.0 | .85<br>.97<br>.88<br>.35<br>-16               |   |
| 2 5<br>5 9<br>9 15<br>15 36<br>30 45<br>0 15<br>FLD |          | .88                                      | .70<br>.90 | .30<br>.37<br>.54 | -07<br>-1 <b>7</b><br>-13<br>-62 | - 18<br>- 36<br>- 41<br>- 28<br>- 88 | .75<br>.81<br>.80<br>.72<br>.22 | .86<br>.70<br>.34<br>.0<br>.13 | .85<br>.97<br>.88<br>.35<br>-16<br>-33        |   |
| 2 5<br>5 9<br>9 15<br>15 36<br>36 45<br>6 15        |          | .88                                      | .70<br>.90 | .30<br>.37<br>.54 | -07<br>-1 <b>7</b><br>-13<br>-62 | - 18<br>- 36<br>- 41<br>- 28<br>- 88 | .75<br>.81<br>.80<br>.72<br>.22 | .86<br>.70<br>.34<br>.0<br>.13 | .85<br>.97<br>.88<br>.35<br>-16<br>-33<br>.78 |   |
| 2 5<br>5 9<br>9 15<br>15 36<br>30 45<br>0 15<br>FLD |          | .88                                      | .70<br>.90 | .30<br>.37<br>.54 | -07<br>-1 <b>7</b><br>-13<br>-62 | - 18<br>- 36<br>- 41<br>- 28<br>- 88 | .75<br>.81<br>.80<br>.72<br>.22 | .86<br>.70<br>.34<br>.0<br>.13 | .85<br>.97<br>.88<br>.35<br>-16<br>-33<br>.78 |   |

|            |           |     |     | , , , , , , , , , , , , , , , , , , , | nila  | er P  |             |     |                  |
|------------|-----------|-----|-----|---------------------------------------|-------|-------|-------------|-----|------------------|
|            | SM        |     |     |                                       |       |       |             | FLA |                  |
| C M        | 5 M 2     | 2 5 |     | 9 15                                  |       | 36 45 |             |     | 2 5              |
| 02         | 1.0       | .92 | .94 | .91                                   | .78   | 111   | .93         | .95 | ,91              |
| 2 5        |           | 1.0 | .97 | .87                                   | .84   | .77   | .94         | .84 | ,95              |
| 5 9 .      | ţ <b></b> |     | 1.0 | .93                                   | .87   | .79   | .97         | .87 | .93              |
| 9 15       |           |     |     | 1.0                                   | .87   | .76   | .93         | .85 | .85              |
| 15 30      |           |     |     |                                       | 1.0   | .93   | .93         | .69 | .78              |
| 3\$ 45     |           |     |     |                                       |       | 1.0   | .87         | .62 | .72              |
| d 15       |           |     |     |                                       |       |       | 1.0         | 86  | .90              |
| F1D<br>0+2 |           |     |     |                                       |       |       |             | 1.0 | .92              |
| 2-5        |           |     |     |                                       |       |       |             |     | 1.0              |
|            |           |     |     |                                       |       |       |             |     |                  |
|            |           |     |     |                                       | /     | Hfal  | <b>f</b> c. |     |                  |
|            | S M       | 2 5 | 5 9 | 9 15                                  | 15 30 | 3045  | Ø15         | FLD | 25               |
| SMZ        | 1.0       | .95 | .95 | 94                                    | .69   | .51   | .96         | .95 | .91              |
| 2 5        |           | 1.0 | .98 | .98                                   | . 79  | 3     | .97         | เลเ | .96              |
| 5 9        |           |     | 1.0 | .99                                   | .82   | . 64  | .98         | .91 | .95              |
| 9 15       |           |     |     | 1.0                                   | .83   | .64   | .78         | .92 | .96              |
| 15 36      |           |     |     |                                       | 1.0   | .85   | .80         | .64 | . <del>כ</del> ל |
| 30 45      |           |     |     |                                       |       | 1.0   | .59         | .43 | .56              |
| 6 15       |           |     |     |                                       |       |       | 1.0         | .93 | .95              |
| F13        |           |     |     |                                       |       |       |             | 1.0 | .95              |
|            |           |     |     |                                       |       |       |             |     |                  |

-20.50437500

**Z4HHL15** 

16

1.62760343

| be,                                                           | Dalhar          | t-Bare | - Combo STAI                        | TISTICAL AN |
|---------------------------------------------------------------|-----------------|--------|-------------------------------------|-------------|
| (+1,50                                                        | VARTABLE        | N      | MEAN                                | SID DEA     |
|                                                               | Z4HHL20         | 16     | -24.25875000                        | 1.53775973  |
|                                                               | Z4HHL25         | 16     | -27.87812500                        | 1:11458942  |
| <del>\$</del> ***                                             | Z4HHL35         | Té     | -35.60625000                        | 1.31438642  |
|                                                               | Z4HHL40         | 16     | -35.89687500                        | 1.55726563  |
|                                                               | Z4HHL45         | 16     | -37.43187500                        | 1.28067284  |
| •                                                             | Z4HVL5          | 17     | -18.43/64706                        | 4.90101588  |
|                                                               | Z4HVL10         | 17     | -24.43058824                        | 2.91541050  |
| 2                                                             | Z4HVL15         | 17     | -30'+67588235                       | 2.60596685  |
|                                                               | <b>24</b> HVL20 | 17     | -37.88411765                        | 2.53319477  |
|                                                               | Z4HVL25         | 17     | -42.43470588                        | 2.31208271  |
|                                                               | Z4HVL35         | 17     | -50.63C00000                        | 2.11766381  |
| ¥                                                             | Z4HVL40         | 17     | -52.46823529                        | 2.50448906  |
| <b>5</b>                                                      | Z4HVL45         | 17     | -54. 24823529                       | 2.05764804  |
| •                                                             | Z 475HL5        | 20     | 25.19550000                         | 12.55220697 |
|                                                               | Z475HL10        | 20     | 17.08100000                         | 8.66455994  |
| *                                                             | Z475HL15        | 20     | 11.26400000                         | 6.12721831  |
| Builde New York                                               | Z475HL20        | 20 .   | 6.83550000                          | 4.53838190  |
|                                                               | Z475HL25        | 20     | 2.8090000                           | 2.98163660  |
|                                                               | Z475HL35        | 20     | -4.76900000                         | 2.96213632  |
|                                                               | Z475HL40        | 20     | -7.21200000                         | 3.48589126  |
| 97 ST                                                         | Z 475HL45       | 20     | -10.93850000                        | 3.65600627  |
| т <u>бтары раре</u> в] снавчис сонтиск тавронатом<br>Микаробо | Z475VL5         | 23     | 20.64434783                         | 5.48915362  |
| H PA                                                          | Z475VL10        | 23     | 8.48652174                          | 4.06676397  |
| o Gray                                                        | Z475VL15        | 23     | 0.58347826                          | 5.14334929  |
|                                                               | Z475VL20        | 23     | -2.71391304                         | 5.54743818  |
|                                                               | Z475VL25        | 23     | -7.24260870                         | 5.61132881  |
|                                                               | Z475VL35        | 23     | -12.29217391                        | 5.46771346  |
|                                                               | Z475VL40        | 23     | -14.68173913                        | 5.86826337  |
|                                                               |                 |        | ORIGINAL PAGE IS<br>OF POOR QUALITY |             |

-166-

| Table<br>1. a Con'H                   | •        | t - Bare | Conbo STA    | TISTICAL ANAL    |
|---------------------------------------|----------|----------|--------------|------------------|
|                                       | VARIABLE | N        | , ME AN      | STO DEV          |
|                                       | Z475VL45 | 23       | -16.00521739 | 5.36163210       |
| g                                     | ZNS1     | 22       | 1.36813636   | 0.81352843       |
|                                       | ZNS2     | 22       | 2.21322727   | 1.26657821       |
|                                       | ZNS3 \   | 22       | 2.00890909   | 1.24049068       |
| *                                     | ZNS4     | 22 .     | 6.38522727   | 3.43069574       |
|                                       | ZNS5     | . 22     | 4.85795455   | 2.54584778       |
| N N N N N N N N N N N N N N N N N N N | ZNS6     | 18.      | 17.56300000  | 6.44529296       |
|                                       | ZNS 7    | 18       | 7.21205556   | 2.96896990       |
|                                       | ZNS8     | 22       | 27.94545455  | 7.44770513       |
| TO X TO THE CONTRETE                  | ZMFMRHL  | 16       | 274.86250000 | 16.74888554      |
|                                       | ZMFMRHC  | 16       | 272.73125000 | 9.63879099       |
| STARE                                 | ZMFMRVC  | 16       | 281.55000000 | 10.72573230      |
| <b>37</b>                             | ZFLD02   | 24       | 5. 45416667  | 2.86932490       |
|                                       | ZFLD25   | 24       | 8.62083333   | 3.80182784       |
|                                       | ZFLD515  | 24       | 12.47500000  | 3.65801681       |
| Les Yor                               | ZFLC015  | 24       | 7.77916667   | 6.•04986375      |
| Baltan New Yor                        | ZFLD1530 | 24       | 11.66250000  | .8.88402633      |
| RATION                                | ZFLD3045 | 24       | 14.25833333  | 10.71224073      |
| COHPORATION                           | Z1SM02   | 18       | 4.8444444    | 2.63689261       |
| CONTROLS                              | Z1SM25   | 18       | 6.9944444    | 2.93547716       |
| DIHAPHIC 1                            | Z15M515  | 18       | 10.9444444   | 3.01783370       |
| PERI GI                               | ZISMC15  | 18       | 5.4444444    | 5.14692624       |
| GRAPH PAPERI GR                       | Z1SM1530 | 18       | 10.17222222  | 9.72255144       |
| e en                                  | Z1SM3045 | 18       | T2.66111111  | 11.94138325      |
|                                       | ZPRT5    | 24       | 27.44583333  | 7.59393231       |
|                                       | Z2SM02   | 22       | 5. 63636364  | 2.82700337       |
| PAGE IS<br>QUALITY                    | Z2SM25   | Z2       | 8.84090909   | 3.72349798       |
| 2.5                                   | Z2SM515  | 22       | 12.42272727  | 3.83963438       |
| GINAL                                 | Z2SM015  | 22       | 7.35000000   | 6.15117101       |
| <u> </u>                              | Z2SM1530 | 22       | 11.19090909  | 9.03136909       |
| 00                                    | Z2SM3045 | 22       | 13.76818182  | 11.02276373 -167 |

| Table | Correla                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | EICH  | ccet | Bare 1 | Combo | - Dalt | neir-E |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------|--------|-------|--------|--------|
| 1     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | FLD A |      |        |       |        |        |
|       | VV.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0-2   | 2-5  | 5-15   | 0-15  | 15-30  | 30-45  |
|       | 13,3210                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | .71   | .70  | .56    | .37   | ,03    | 100    |
|       | 133415                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | .63   | .66  | .72    | .70   | .47    | .44    |
|       | 13,3420                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | .33_  |      |        |       | .35    | .84    |
|       | 1.665                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | .80   | .88  | .71    |       | -19    | -,23   |
|       | 1645                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | .80   | .62  | .57    | -01   | 7.30   | - 37   |
|       | 1.6215                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | .53   | .48  | .54    | .55   | .29    | .29    |
|       | 1.6420                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | .56   | .31  | .46    | .69   | .64    | .64    |
|       | 1.6125                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | .53   | .29  | .44    | .73   | .77    | .7.5   |
|       | 4415                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | .56   | .77  | .77    | .05   | .67    | .25    |
| L (   | 7.1.20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | .53   | .67  | .82    | .35   | .34    | .34    |
|       | 41/20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | .68   | 81   | .87    | .39   | .26    | .24    |
|       | .44.35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | .70   | .74  | .80    | 46    | .30    | .20    |
|       | 4,75,215                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | .05   | .31  | .26    | .07   | 05     | 66     |
|       | 4,75420                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | .04   | ,34  | .35    | .18   | .07    | .66    |
|       | 475440                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       | .07  | 36_    | . 58  | .77    | .73    |
|       | 4.7545<br>HV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | .59   | .76  | .62    | ./3   | -,06   | 7.68   |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 41.   | 38   | . 7/3  | -4/1  | .53    | 51     |
|       | 1.75415<br>NS<br>NS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | .05   | ,54  | .55    | .24   | 7.04   | 502    |
|       | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -18   | .12  | .31    | ,33   | 42     | .43    |
|       | MAZK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -40   | -,76 |        | .04   | .13    | .14    |
|       | MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MENER<br>MEN<br>MEN<br>MEN<br>MEN<br>MEN<br>MEN<br>MEN<br>MEN<br>MEN<br>MEN | -38   |      |        |       | 19     | /7     |

Table

#### Single Variable Regressions for FLD 0-2 Dalhart Bare Combo

| Independent<br>Variable | Intercept    | Coefficient | RZ    | S.E.E. |
|-------------------------|--------------|-------------|-------|--------|
| 13.3VVL10               | 7.42         | 1.76        | .504  |        |
| 1.6 HH L15              | 20.31        | .77         | .645  |        |
| 1.6 HV LZO              | 35.72        | .91         | .317  |        |
| .4 HH L15               | 23.58        | .90         | .316  |        |
| .44125                  | 40.54        | .83         | .495  |        |
| 4.75 44415              | 5.28         | .02         | 500.  |        |
| 4.75HV 45               | 66           | .30         | .347  |        |
| NS 1                    | <b>5</b> .75 | 7.037       | .000  |        |
| NS 2                    | 6.01         | 14          | .004  |        |
| NS 3                    | 5.46         | .11         | .0026 | •      |
| NS 4                    | 6.67         | 15          | . 033 |        |
| NS 5                    | 6.31         | -12         | 510.  |        |
| NS 6                    | 8.43         | 13          | .110  |        |
| NS 7                    | 7.66         | ~.216       | .062  |        |
| NS 8                    | 10.28        | 16          | .182  |        |
| MFMR HL                 | 43.62        | 14          | . 81  |        |
| MFMR HC                 | 59.56        | 199         | .545  |        |
| MFMR VC                 | 56.44        | 182         | .563  |        |
| Prt5                    | 8.43         | 108         | .083  |        |

| VARIABLE .   | N    | - Consined Stubble | STD DEV     |
|--------------|------|--------------------|-------------|
|              |      |                    |             |
| \$13VVL5     | 43   | 1.90116279         | 2.62231287  |
| S13VVL10     | 4.3  | -0.71651163        | 1.69957261  |
| \$13\/VL15   | . 43 | -5.01255814        | 1,61855181  |
| S13VVL20     | 43   | -8.01511628        | 1.39701616  |
| S1 3V V L 25 | 4.3  | -7.82767442        | 1-60838848  |
| \$13VVL35    | 43   | -11.28116279       | 1.72800767  |
| S13VVL40     | 42   | -11.89333333       | 1.81436230  |
| S13VVL45     | .40. | -11.95275000       | 1.83267912  |
| S16HH15      | 41   | -11-30634146       | 3.74127235  |
| S16HHL10     | 41   | -16.12341463       | 2.90256749  |
| S1 6HHL15    | 41 . | -18.23926829       | 3.16448526  |
| S16HHL20     | 41   | -22.52536585       | 1.99199535  |
| S1 6HHL25    | 41   | -21.58195122       | 2.56491834  |
| S16HHL35     | 41   | -27.49414634       | 2.78711856  |
| SI CHHL40    | 40   | -30.84125000       | 2.87572170  |
| S16HHL45     | 38   | -32. \$6421053     | 2.73561459  |
| S16HVL5      | 53   | -14.75301887       | 1.71532637  |
| S16HVL10     | 53   | -24.00037736       | 1.34247470  |
| \$1 6H VL15  | 53   | -28.13490566       | 1.30322768  |
| S16HVL20     | 53   | -32.13283019       | 1.81434707  |
| S1 6H VL 25  | 53   | -32.89433962       | 1.94384186  |
| \$16HVL35    | 53   | -36.80226415       | 3.24317724  |
| S1 6H VL40   | 51   | -39.36960784       | 3.27598166  |
| \$16HVL45    | 49   | -39,99959184       | 3.09135351  |
| S4HHL5       | 39   | -8.73948718        | 3.78176995  |
| S4HHL10      | 39   | -14.41666667       | 2, 16404754 |
| S4HHL15      | 39   | -18.71692308       | 1.80735217  |

-170-

## Dalhart-Combined Stebbles TATISTICAL

|            |           | 1                                |            |
|------------|-----------|----------------------------------|------------|
| VARIABLE   | N         | MEAN                             | STD DEV    |
| S4HH1.20   | 39        | -22.65076923                     | 2.09748143 |
| S4HHL25    | 39        | -,26.66487179                    | 1.62372196 |
| S4HHL35    | 39        | -34.11307692                     | 1.43216647 |
| S4HHĽ40    | 38        | -35.07236842                     | 2.31327478 |
| S4HHL45    | 36        | -36.20694444                     | 2.52476853 |
| S4HVL5     | 41        | -16.26390244                     | 4.58601890 |
| S4HVL10    | 41        | -21.86585366                     | 3.06950727 |
| S4HVL15    | 41        | -28.44439024                     | 3.41996422 |
| S4HVL20    | 41"       | -35.85780488                     | 3,32944178 |
| S4HVL25    | 41        | -40.90634146                     | 2.83029041 |
| S4HVL35    | 41        | -49.63219512                     | 2.21592589 |
| S4HVL40    | 40        | -50.67750000                     | 2.73534112 |
| S4HVL45    | 3.8       | -52.75394737                     | 2.61391447 |
| S475HL5    | 47        | 27.88191489                      | 2.76442355 |
| S475HL1C   | 47        | 19.65510638                      | 2.69659276 |
| S475HL15   | <u>47</u> | 13.00170213                      | 2.80915608 |
| \$475HL2C  | 47        | 8.13851C64                       | 2.84764203 |
| \$475HL25  | 47        | 3.45234C43                       | 2.82875085 |
| \$475HL35  | 47        | -5.34000000                      | 2.95426883 |
| \$475HL4C  | 46        | -7.85978261                      | 3.14368749 |
| S475HL45   | 44        | -11.91022727                     | 3.44794073 |
| \$475VL5   | 53        | 20.60867925                      | 5.00188620 |
| \$475 VL1C | 53        | 8.46509434                       | 3.93437642 |
| \$475VL15  | 53        | 0.53660377                       | 4.81970073 |
| \$475VL2C  | 53        | -2.91924528                      | 4,96746331 |
| \$475VL25  | 53        | -7.37830189                      | 5.23132199 |
| S475VL35   | 53        | -13.10150943                     | 5.10128015 |
| S475VL4C   | 51        | -15.93176471                     | 5.23862032 |
|            |           | ORIGINAL PAGE IS OF POOR QUALITY |            |

-171-

| Table                  | Dalhar      | + - Co          | embined Stubbles TA | TISTICAL ANAL    |
|------------------------|-------------|-----------------|---------------------|------------------|
| 1.2 C(COM 1)           | VARIABLE    | . N             | MEAN                | STD DEV .        |
|                        | . \$475VL45 | 49              | -16.72775510        | 4.93407.804      |
|                        | SNSI        | - 52            | 1.51980769          | 0.82858663       |
|                        | SNS2        | 52              | 2.45823077          | 1.36964397       |
|                        | SN S3       | 52 `            | 2.37144231          | 1.31086274       |
|                        | SNS4        | 52              | 5.87300000          | 3.20183601       |
|                        | SNS5        | 52 .            | 4-62180769          | 2.52288755       |
|                        | SNS6        | 42              | 18.80509524         | 6.45283584       |
|                        | SN S7       | 42              | 8.34545238          | 3.18819377       |
|                        | SNS8        | 52              | 28.66923077         | 7.72372303       |
|                        | SMEMRHL     | 40              | 275.14750000        | 18-42186532      |
| =                      | SMFMRHC     | 40              | 271.12500000        | 10.71236405      |
|                        | SMFMRVC     | 40              | 286-99000000        | 11.40617916      |
|                        | SFLD02      | 56              | 6.05000000          | 3.80740905       |
| •                      | SF LD 25    | 56              | 10.86785714         | 5.44627002       |
|                        | SFLD515     | 56              | 12.89107143         | 4.24038063       |
| I New York             | SFLD015     | 56 <sup>`</sup> | <b>5.7</b> 9642857  | 6.91827525       |
| Battalo                | SFLD1530    | 56              | 6.34285714          | 7•46246016       |
| СОНРОВАПОМ             | SFLD3C45    | 56              | 7.84107143          | 9.19426257       |
| ILS COHE               | S1SM02      | 44              | 5.62045455          | 3.92277664       |
| PHIC CONTROLS C        | \$1SM25     | . 44            | 10.16818182         | 5.91080102       |
| GHAPHID                | S1SM515     | 44              | 12.03636364         | 4-16106487       |
| <u>FEER SPEED</u>      | S1SM015     | 44              | 3.40000000          | 5.72306634       |
| <u>СВЕН РАРЕВ</u> СНАР | S15M1530    | 44              | 3.96136364          | 6.58066993       |
|                        | S1SM3C45    | 44              | 4.96590909          | 8.23178590       |
|                        | SPRT5       | <u>56</u>       | 28.02857143         | 7.81319896       |
| <b>C</b>               | S2SM02      | 52              | 6.36538462          | 3.91447212       |
| PAGE IS<br>OUALITY     | S25M25      | , 52            | 11.39423077         | 5.30580198       |
| PAGE QUALIT            | S25M515     | 52              | 12.97115385         | 4,33233789       |
| WAL DOR C              | S2SM015     | 52              | 5.43269231          | 7.04154955       |
| ORIGINAL<br>OF POOR    | -S2SM1530   | 52              | 5.70769231          | 7.35265315       |
|                        | S2SM3C45    | 52              | 7.00576923          | 9.00345061 -172- |

| Correlation Coefficients:<br>Stubble - Dalhart |      |      |      |       |       |  |
|------------------------------------------------|------|------|------|-------|-------|--|
| VV FLD                                         | 2-5  | 5-15 | 0-15 | 15-30 | 30.45 |  |
| 13 3/15 54                                     | .47  | .61  | .63  | .62   | ,62   |  |
| 13.345.54                                      | .4/  | .64  | .54  | ,54   | .54   |  |
| 1445 .77                                       | .58  | .49  | .48  | .42   | .40   |  |
| 1.64570                                        | .48  | .56  | .60  | .56   | .55   |  |
| 1,6 415 ,55                                    | .35  | ,54  | ,45  | ,43   | .43   |  |
| 1.6,220 .65                                    | .50  | .64  | .34  | .37   | .3 C  |  |
| 1,6,4,25 .62                                   | .58  | .73  | 35   | .30   | .29.  |  |
| .7215 .63                                      | .63  | .44  | ./5  | -11   | .69   |  |
| .4/20 .46                                      | .44  | 42   | .50_ | .46   |       |  |
| 425 .54                                        | .57  | .66  | .48  | .43   | 140   |  |
| .47.5 .74                                      | .81  | .78  | .39  | .36   | -39   |  |
| .420 .55                                       | 59   | .73  | .56  | .54   | .53   |  |
| 475310 .44                                     | .5/  | .43  | .44  | .42   | .47   |  |
| 4.75415 341                                    | ,51  | .60  | 56   | ,35   | .57   |  |
| # 75/20 .56                                    | .47  |      | .54  |       | .53   |  |
| 475420 .56<br>47545 .72                        | .75  |      | 30   |       | .37   |  |
| 475420 .68                                     | .7/  |      | .47  | .37   | .35   |  |
| 16 -61                                         | 7.74 |      | 7,06 | 703   | 762   |  |
| MEME                                           | 738  |      | 707  | 7.07  | 763   |  |
| Minute 778                                     |      | 7,28 | .01  |       | 709   |  |
| 5 321                                          | .17  | .05  | 7.09 | ,10   | .01.  |  |

[ rible

Table 1.24

# Single Variable Regressions for FLD Ø-2 Dalhart - Stubble

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Independent<br>Variable | Intercept | Coefficient | RZ    | <u>S.E.F</u> . |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----------|-------------|-------|----------------|
| <br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 13.3VV U5               | 12.40     | 1.29        | .293  |                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1.6HH L15               | 21.84     | .86         | .491  |                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1.6HVL 20               | 50.87     | /.39        | .422  |                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | .4 HH L15               | 31.53     | 1.37        | .392  | ÷              |
| Part of the last o | .4#VL15                 | 31.17     | .88         | .552  |                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 4.7544 410              | -6.40     | .64         | .176  |                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 4.75HVL5                | -5.14     | .55         | .525  |                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | NS 1                    | 6.31      | 005         | .000  |                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | NS 3                    | 6.17      | .05         | .000  |                |
| . :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | NS 3                    | 6.20      | .04         | .000  |                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | NS 4                    | 5.89      | .07         | .003  |                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | NS 5                    | 5.63      | .14         | .009  |                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | NS 6                    | 13.56     | 33          | .379  |                |
| N :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | NS 7                    | 12.64     | 638         | .339  |                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | NS 8                    | 11.02     | 164         | .110  |                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | MFMR HL                 | 51.59     | 166         | .615  |                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | MFMRHC                  | 50.15     | 163         | . 200 |                |
| - Mari                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | MFMR VC                 | 49.54     | 155         | .206  |                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Prt 5                   | 8.79      | 097         | .040  |                |

| D13VVL5         23         1.08565217           D13VVL10         23         -1.33739130           D13VVL15         23         -5.27782609           D13VVL20         23         -7.93434783           D13VVL25         23         -7.56782609           D13VVL35         23         -10.94173913           D13VVL40         23         -12.46695652           D13VVL45         22         -11.46695652           D16HHL5         23         -12.28521739           D16HHL10         23         -17.01652174           D16HHL15         23         -18.87304348           D16HHL20         23         -22.59956522           D16HHL25         23         -20.68695652           D16HHL35         23         -26.74304348           D16HHL40         23         -30.32217391           D16HVL5         23         -14.95565217           D16HVL10         23         -24.31913043           D16HVL15         23         -28.32434783           D16HVL20         23         -32.01291304           D16HVL25         23         -32.60434783                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2.6443023<br>1.7648003<br>1.2054533<br>0.8644379<br>0.8135944<br>1.2050184<br>1.3376486 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| D13VVL15         23         -5.27782609           D13VVL20         23         -7.93434783           D13VVL25         23         -7.56782609           D13VVL35         23         -10.94173913           D13VVL40         23         -11.46695652           D13VVL45         22         -11.44636364           D16HHL5         23         -12.28521739           D16HHL10         23         -17.01652174           D16HHL15         23         -18.87304348           D16HHL20         23         -22.59956522           D16HHL25         23         -20.68695652           D16HHL35         23         -26.74304348           D16HHL40         23         -30.32217391           D16HHL45         22         -32.06772727           D16HVL5         23         -14.95565217           D16HVL10         23         -24.31913043           D16HVL15         23         -28.32434783           D16HVL20         23         -32.01291304                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1.2054533<br>0.8644379<br>0.8135944<br>1.2050184<br>1.3376486                           |
| D13VVL20       23       -7.93434783         D13VVL25       23       -7.56782609         D13VVL35       23       -10.94173913         D13VVL40       23       -11.46695652         D13VVL45       22       -11.44636364         D16HHL5       23       -12.28521739         D16HHL10       23       -17.01652174         D16HHL15       23       -18.87304348         D16HHL20       23       -22.59956522         D16HHL25       23       -20.68695652         D16HHL35       23       -26.74304348         D16HHL40       23       -30.32217391         D16HHL45       22       -32.06772727         D16HVL5       23       -14.95565217         D16HVL10       23       -24.31913C43         D16HVL15       23       -28.32434783         D16HVL20       23       -32.01291304                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.8644379<br>0.8135944<br>1.2050184<br>1.3376486                                        |
| D13VVL25       23       -7.56782609         D13VVL35       23       -10.94173913         D13VVL40       23       -11.46695652         D13VVL45       22       -11.44636364         D16HHL5       23       -12.28521739         D16HHL10       23       -17.01652174         D16HHL15       23       -18.87304348         D16HHL20       23       -22.59956522         D16HHL25       23       -20.68695652         D16HHL35       23       -26.74304348         D16HHL40       23       -30.32217391         D16HHL45       22       -32.06772727         D16HVL5       23       -14.95565217         D16HVL10       23       -24.31913043         D16HVL15       23       -28.32434783         D16HVL20       23       -32.01391304                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.8135944<br>1.2050184<br>1.3376486                                                     |
| D13VVL35 23 -10.94173913  D13VVL40 23 -12.46695652  D13VVL45 22 -11.46695652  D16HHL5 23 -12.28521739  D16HHL10 23 -17.01652174  D16HHL15 23 -18.87304348  D16HHL20 23 -22.59956522  D16HHL25 23 -20.68695652  D16HHL35 23 -26.74304348  D16HHL40 23 -30.32217391  D16HVL5 23 -14.95565217  D16HVL5 23 -24.31913C43  D16HVL10 23 -28.32434783  D16HVL20 23 -32.01291304                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1.2050184                                                                               |
| D13VVL40       23       -12.46695652         D13VVL45       22       -11.46636364         D16HHL5       23       -12.28521739         D16HHL10       23       -17.01652174         D16HHL15       23       -18.87304348         D16HHL20       23       -22.59956522         D16HHL25       23       -20.68695652         D16HHL35       23       -26.74304348         D16HHL40       23       -30.32217391         D16HHL45       22       -32.06772727         D16HVL5       23       -14.95565217         D16HVL10       23       -24.31913C43         D16HVL15       23       -28.32434783         D16HVL20       23       -32.01291304                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1.3376486                                                                               |
| D13VVL45       22       -11,44636364         D16HHL5       23       -12.28521739         D16HHL10       23       -17.01652174         D16HHL15       23       -18.87304348         D16HHL20       23       -22.59956522         D16HHL25       23       -20.68695652         D16HHL35       23       -26.74304348         D16HHL40       23       -30.32217391         D16HHL45       22       -32.06772727         D16HVL5       23       -14.95565217         D16HVL10       23       -24.31913C43         D16HVL15       23       -28.32434783         D16HVL20       23       -32.01291304                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                         |
| D16HHL5       23       -12.28521739         D16HHL10       23       -17.01652174         D16HHL15       23       -18.87304348         D16HHL20       23       -22.59956522         D16HHL25       23       -20.68695652         D16HHL35       23       -26.74304348         D16HHL40       23       -30.32217391         D16HHL45       22       -32.06772727         D16HVL5       23       -14.95565217         D16HVL10       23       -24.31913C43         D16HVL15       23       -28.32434783         D16HVL20       23       -32.01291304                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1.4094461                                                                               |
| D16HHL10       23       -17.01652174         D16HHL15       23       -18.87304348         D16HHL20       23       -22.59956522         D16HHL25       23       -20.68695652         D16HHL35       23       -26.74304348         D16HHL40       23       -30.32217391         D16HHL45       22       -32.06772727         D16HVL5       23       -14.95565217         D16HVL10       23       -24.31913043         D16HVL15       23       -28.32434783         D16HVL20       23       -32.01291304                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                         |
| D16HHL15       23       -18.87304348         D16HHL20       23       -22.59956522         D16HHL25       23       -20.68695652         D16HHL35       23       -26.74304348         D16HHL40       23       -30.32217391         D16HHL45       22       -32.06772727         D16HVL5       23       -14.95565217         D16HVL10       23       -24.31913C43         D16HVL15       23       -28.32434783         D16HVL20       23       -32.01291304                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3.2439466                                                                               |
| D16HHL20       23       -22.59956522         D16HHL25       23       -20.68695652         D16HHL35       23       -26.74304348         D16HHL40       23       -30.32217391         D16HHL45       22       -32.06772727         D16HVL5       23       -14.95565217         D16HVL10       23       -24.31913C43         D16HVL15       23       -28.32434783         D16HVL20       23       -32.01291304                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2.5461871                                                                               |
| D16HHL25       23       -20.68695652         D16HHL35       23       -26.74304348         D16HHL40       23       -30.32217391         D16HHL45       22       -32.06772727         D16HVL5       23       -14.95565217         D16HVL10       23       -24.31913C43         D16HVL15       23       -28.32434783         D16HVL20       23       -32.01291304                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2.3805660                                                                               |
| D16HHL35       23       -26.74304348         D16HHL40       23       -30.32217391         D16HHL45       22       -32.06772727         D16HVL5       23       -14.95565217         D16HVL10       23       -24.31913C43         D16HVL15       23       -28.32434783         D16HVL20       23       -32.01291304                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1.8571005                                                                               |
| D16HHL40       23       -30.32217391         D16HHL45       22       -32.06772727         D16HVL5       23       -14.95565217         D16HVL10       23       -24.31913C43         D16HVL15       23       -28.32434783         D16HVL20       23       -32.01291304                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2.3349448                                                                               |
| D16HHL45       22       -32.06772727         D16HVL5       23       -14.95565217         D16HVL10       23       -24.31913C43         D16HVL15       23       -28.32434783         D16HVL20       23       -32.01291304                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2.4141127                                                                               |
| D16HVL10 23 -14.95565217  D16HVL10 23 -24.31913C43  D16HVL15 23 -28.32434783  D16HVL20 23 -32.012913C4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2.0853579                                                                               |
| D16HVL10: 23 -24.31913C43  D16HVL15 23 -28.32434783  D16HVL20 23 -32.01291304                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1.9463541                                                                               |
| D16HVL15 23 -28.32434783 D16HVL20 23 -32.01391304                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1.5393854                                                                               |
| D16HVL20 23 -32.01291304                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1.2511373                                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1.2536485                                                                               |
| D16HVL25 23 -32.60434783                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1.8768342                                                                               |
| and a first control of the control o | 1.7310134                                                                               |
| D16HVL35 23 -36.37434783                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3.1588286                                                                               |
| D16HVL40 23 -38.65782609                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3.5791644                                                                               |
| D16HVL45 22 -39.69363436                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3.0459614                                                                               |
| D4HHL5 23 -9.33826087                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2.8084995                                                                               |
| D4HHL10 23 -14.54782609 -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | UCCT777                                                                                 |

| T)     | BLE N         | , MEAN       | T I S T I C A L |
|--------|---------------|--------------|-----------------|
| DAHHL  | , ,           | -23.11260870 | 1.84880605      |
|        |               |              |                 |
| D4HHL: |               | -26.61739130 | 1.64174579      |
| D4HHL: |               | -34.03434783 | 1.49474481      |
| DAHL   |               | -35.21521739 | 2.86852333      |
| D4HHL4 |               | -36.14818182 | 3.01964778      |
| D4HVL! | 23            | -16.80130435 | 3.32534660      |
| D4HVL  | 10 23         | -21.88739130 | 3.44759365      |
| D4HVL  | 15 23         | -28.56565217 | 3.63397957      |
| D4HVL2 | 20 23         | -36.22043478 | 3.23854973      |
| DAHVL  | 25 23         | -40.51782609 | 2.86212565      |
| D4HVL3 | 35 23         | -49.78043478 | 2.12338597      |
| D4HVL  | 40 23         | -51.30086957 | 2.15920632      |
| D4HVL4 | 522           | -52,58772727 | 2.86741452      |
| D475HI | .5 23         | 27.36869565  | 3.23657409      |
| D475H  | .10 23        | 18.82043478  | 2.95008394      |
| D475HL | .1523         | 12.29217391  | 2,64681619      |
| D475H1 | .2C <b>23</b> | 7.83130435   | 2+40490088      |
| D475HI | .25 23        | 3.34347826   | 2.36202265      |
| 0475HI | .35 23        | -5.35217394  | 2.46169557      |
| D475HL | .4C 23        | -7.88086957  | 2.77657721      |
| D475H1 | .45 . 22      | -12-27363636 | 2.69529316      |
| D475V  | .5 23         | 20.02130435  | 4.82368617      |
| D475VL | .10 23        | 7:91695652   | 3.65418245      |
| D475VL | .15 23        | -0.43217391  | 4.36344938      |
| 047511 | .2 ( 23       | -3.86869565  | 4.42184074      |
| D475VL | .25 23        | -8.67652174  | 4.52518770      |
| 047571 | .35 23        | -14.39782609 | 3.99094311      |
| D475VL | .40 23        | -17.16434783 | 4.23405547      |

| Tuble                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Dall     | ort - Diske   | d Seubble st      | ATISTIC'AL ANAL |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------------|-------------------|-----------------|
| 無いっしい、フ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | VARIABLE | N ·           | MEAN              | STD DEV         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | D475VL45 | 22            | 18.26727273       | 3.91332909      |
| And in                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | DNSI     | 24            | 1.49287500        | 0.88728983      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | DN S 2   | 24            | 2.39658333        | 1.50971664      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | DNS3     | 24            | 2.38341667        | 1.48904241      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | DNS4     | 24            | 5. 282875,00      | 3.17907887      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | DNS5     | 24            | 4. 30054167       | 2.64801839      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | DNS6     | 1.8           | 19.72761111       | 6.67083484      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | DN S7    | 18            | 8.96405556        | 3.09417047      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | DNS8     | 24            | 28.78333333       | 8.17167253      |
| TO THE CONTROLL OF THE CONTROL | DMEMRHL  | 24            | 276.91250000      | 17.79558598     |
| =======================================                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | DMFMRHC  | 24            | 273.87500000      | 9.35392268      |
| SEC.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | DMFMRVC  | 24            | 283.70833333      | 10.06478651     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | DFLD02   | 24            | 6.01250000        | 4.15873230      |
| <b>1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | OF LD 25 | 24            | 11.3166667        | 6.53543297      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | DFLD515  | 2.4           | 12.50833333       | 4.00672442      |
| dev Kak                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | DELDO15  | 24            | 0                 |                 |
| Bultako                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | DFLD1530 | 24            | o o               | 0               |
| HPORATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | DFLD3C45 | 24            | 0                 | ′ 0             |
| S CUBPO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | DISMOZ   | 24 '          | 6.11666667        | 4.33134849      |
| CONTROLS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | D1 SM 25 | 24            | 11.45000000       | 6.63966998      |
| нарист                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | D1SM515, | , 24          | 12.60833333       | 4.00553060      |
| PERI G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | DISMO15  | 24            | <u> </u>          | 0               |
| CHARLE PARED GHAPHE CONTROLS CURPORATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | D1SM1530 | 24            |                   | 0               |
| GRAPH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | D1SM3045 | 24            | .0                | 0               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | OPRT5    | 24            | 28.24583333       | 8.29326490      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | D2SM02   | 24            | 6-0666667         | 4.34267666      |
| F. Activities of the second                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | D2SM25   | 24            | 11.36250000       | 6.59623163      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | D25M515  | 24            | 12.46250000       | 3.96975659      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | D25M015  | 24.           |                   | 0               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | D2SM1530 | 24 <b>O</b> I | RIGINAL PAGE IS 0 | <b>o</b> . —    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | D2SM3C45 | 24 01         | POOR QUALITY      | 0 #             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |               |                   |                 |

| Tenble | Correlation             | n Ccett | Distol | Stubble - Dal   |
|--------|-------------------------|---------|--------|-----------------|
| 26     | FLD.                    | AVE.    | Disked | secone - Dat    |
|        | 5-0-2                   |         | 5-15   |                 |
|        | 13345 .58               | .56     | .30    | OF POOR QUALITY |
|        | 133430 .54              | .45     | .16    |                 |
|        | 1.645 .77               | .64     | ,52    |                 |
|        | 1.6415 71<br>1.6420 .62 | .55     | .41.   |                 |
|        | 1.6430 .62              | .53     | .57    |                 |
|        | 1.6435 62               | 59      | 68     |                 |
|        | 475 .49                 | .56     | .54    |                 |
|        | -4/15 .80               | - 79    | .68    |                 |
|        | 14/0 .57                | .69     | .66    |                 |
|        | 4/15 .79                | .84     | - 75   |                 |
|        | 4.75 45 .44             | .55     | .37    |                 |
|        | 4 340 37                | .45     | .27    |                 |
|        | 7.75415 .68             | -72     | .65    |                 |
|        | 4.75420 .69             | .75     | .70    |                 |
|        | 1.75425 .72             | 78      | 75     |                 |
|        | 15 -64                  | 7.51    | 49     |                 |
|        | MEMO60                  | 7,46    | -45    |                 |
|        | M5MK -83                | 7.60    | -,50   |                 |
|        | Pis 511                 | .20     | .21    |                 |
|        |                         |         |        |                 |

Table 27

# Single Voriable Regressions for FLD Ø-2 Delhart - Disked Suchble

| Independent<br>Variable | Intercept     | Coefficient  | e <sup>z</sup> | S.E.E. |
|-------------------------|---------------|--------------|----------------|--------|
| 13.3VV <i>L15</i>       | 16.78         | 2.03         | . 333          |        |
| 1.6HH L 5               | 18.44         | 1.00         | .593           |        |
| 1.6HV 125               | 55.68         | 1.52         | .385           |        |
| .4 HH L/5               | 41.55         | 1.88         | .645           |        |
| .4HV L 15               | 3≥.59         | .93          | ,630           |        |
| 4.75 HH L5              | -9.79         | . <b>5</b> 7 | .194           |        |
| 4.75HV LZ5              | 11.90         | .67          | .516           |        |
| NS 1                    | 5.76          | .16          | .001           |        |
| SZN                     | 5.5/          | 15.          | .005           |        |
| NS 3                    | 5.65          | .149         | .003           |        |
| NS 4                    | 5.56          | .08          | .004           |        |
| NS 5                    | 5. ZI         | .185         | .013           |        |
| NS 6                    | 14.69         | 37           | .40            |        |
| NS 7                    | 14.17         | 769          | . 363          |        |
| NS 8                    | 8.67          | 09           | .033           |        |
| MFMR HL                 | 59.54         | /9           | .684           |        |
| MFMR HC                 | 54.38         | /7           | .157           |        |
| MFMR VC                 | 52.39         | 16           | .156           |        |
| Prt 5                   | 7. <i>5</i> 2 | 05           | .011           |        |

| VARIABLE **** | . 14 | hart-Corn MEAN      | ************************************** |
|---------------|------|---------------------|----------------------------------------|
| C13VVL5       | 32.  | 0.70968750          | 1.2517329                              |
| °C 13VVC1 0   | 32   | -0.74000000         | 0.9876789                              |
| C13VVL15      | 32   | <b>-3.7</b> 9812500 | 0.9319921                              |
| C 13VVL20     | 32   | -5.65187500         | 0.8847249                              |
| C13VVL25      | 32   | -4.52500000         | 0.8940881                              |
| C13VVL35      | 32   | -6.81781250         | 0.8874891                              |
| C13VVL40      | 32   | -7.05562500         | 0.8211201                              |
| C13VVL45      | 31   | <b>-7:1</b> 3967742 | 0.7971176                              |
| C16HHL5       | 32   | -14.81093750        | 1.9302471                              |
| C16HHL10      | 32   | -16.56468750        | 1.6822795                              |
| C16HHL15.     | 32   | -16.80343750        | 1.7943973                              |
| C16HHL20      | 32   | -19.01343750        | 1.4037061                              |
| C16HHL25      | 32   | -17.25062500        | 1.4477901                              |
| C16HHL35 -    | 32   | -19.80718750        | 1.2744568                              |
| C16HHL40      | 32   | -22:35218750        | 1.2822881                              |
| C16HHL45      | 31   | -23.02774194        | 1.1012196                              |
| C16HVL5       | 32   | -15.04406250        | 1.5528140                              |
| C16HVL10      | 32   | -22.14406250        | 0.9851898                              |
| C16HVL15      | 32   | -23.80406250        | 1.3719091                              |
| CI6HVL20      | 32   | -24.20343750        | 1.3279564                              |
| C16HVL25      | 32   | -24.06093750        | 1.5629115                              |
| C16HVL35      | 32   | -25,59250000        | 1.4728204                              |
| C16HVL40      | 32   | -28.80156250        | 1.4872666                              |
| C16HVL45      | 31   | -28.31903226        | 1.4358954                              |
| C4HHL5        | 32   | -9.93562500         | . 3.8943979                            |
| C4HHE10       | 32   | -15.05906250        | 2.5063189                              |
| C4HHL15       | 32   | -18.37031250        | 2.3826543                              |

-180-

| able                                  | Do         | alhart- | Corn sta             | TISTICAL AN            |
|---------------------------------------|------------|---------|----------------------|------------------------|
| B(con't)                              | VARIABLE   | N       | MEAN                 | STO DEV                |
|                                       | C4HHL20    | 32      | -21.46406250         | 2.54810981             |
|                                       | C4HHL25    | 32      | -23.51531250         | 2.22451152             |
| ***                                   | CAHHL35    | . 32    | -28:24437500         | 2.11488113             |
|                                       | 'C 4HHL40  | 32 ,    | -28.15843750         | 1.93948964             |
| · · · · · · · · · · · · · · · · · · · | C4HHL45    | , 31    | -28.51967742         | 1.61196667             |
| •<br>•                                | C4HVL5     | 32      | -17.40468750         | 2596347767             |
| <b>}</b><br><b>≧</b>                  | C4HVL10    | 32      | -21.37250000         | 3.10635042             |
|                                       | C4HVL15    | 32      | -25.72718750         | 3.10575453             |
| <u> </u>                              | C 4HVL20   | 32      | -29.19781250         | 3.13928463             |
|                                       | C4HVL25    | 32      | <b>-32.1734375</b> 0 | 2•71554024             |
| -                                     | C4HVL35    | 32      | -41.44781250         | 2.36756406             |
| ·<br>•                                | C4HVL40    | 32      | <b>-42.</b> 85062500 | 2.17508315             |
| ŧ                                     | C4HVL45    | 31      | -42.72387097         | 2.33852044             |
|                                       | C475HL5    | 32      | 25.97281250          | 2.77026403             |
| <del>-</del> -                        | C475HL10   | 32      | 18.25343750          | 2.15115265             |
| <u> </u>                              | C475HL15   |         | 13.33062500          | 2.19200297             |
| -                                     | C4/5HL20   | 32      | 10.01375000          | 1.94941637             |
|                                       | C475HL25   |         | 6.65781250           | •                      |
| Protest in U.S.A.                     |            | 32      |                      | 1.89663664             |
| ns A                                  | C475HL35   | 32      | 0.05656250           | 1.77694484             |
| Printed in                            | C475HL4C   | 32<br>  | -1.89906250          | 1.83397569             |
| -                                     | C475HL45   | 31      | -5.79516129          | 2.05107593             |
| -                                     | C475VL5    | 32      | 20.91218750          | 3.12055695             |
|                                       | . C475VL10 | 32      | 14:50406250          | 4.14956808             |
| _                                     | C475VL15   | 32      | 9.15250000           | 4.67734899             |
|                                       | C475VL20   | 32      | 6.86906250           | 4.74431433             |
|                                       | C 475VL25  | 32      | 1.91250000           | 5.04773919             |
|                                       | C475VL35   | 32      | -3.67781250          | 4.72321223             |
|                                       | C475VL40   | 32      | -5.62531250          | 4.62742106             |
|                                       |            |         | C-3 ORIGINA          | L PAGE IS<br>R QUALITY |

-181-

| Table,                                               | Dal        | hart-Co                                  | CD STA       | TISTICAL ANALY    |
|------------------------------------------------------|------------|------------------------------------------|--------------|-------------------|
| 28 (cont)                                            | VARIABLE   | • · · · · · · · · · · · · · · · · · · ·  | MEAN         | STU DEV           |
| ž.                                                   | C475VL45   | 31                                       | -7.25935484  | 4.50986765        |
| <b>k</b> •                                           | CNS1       | , <b>32</b> ,                            | 0.55678125   | 0.27186165        |
| # 1                                                  | CNS2       |                                          | 7 90928125   | * 0.50589373***** |
| , , , , , , , , , , , , , , , , , , ,                | CNS3       | 32 · · · · · · · · · · · · · · · · · · · | 0.54125000   | 0.30117126        |
|                                                      | CNS4       | 32                                       | 7.88878125   | 4.19475205        |
| _                                                    | CNS5'      | 32                                       | 4.54009375   | 2.52773155        |
| 8-12-3<br>                                           | CNS 6      | 24                                       | 7.73145833   | 2.16344763        |
|                                                      | CNS7       | 24                                       | 2.81991667   | 0.81888545        |
|                                                      | CNS8       | 32 ····································  | 22.58750000  | 3.53240757        |
| ) H                                                  | CMFMRHL    | 32                                       | 282.35937500 | 6.70016174        |
|                                                      | CMFMRHC    | 32                                       | 272.57500000 | 5.88935617        |
|                                                      | CMFMRVC    | 32                                       | 281.90312500 | 6.39397319        |
| T                                                    | CFLD02     | 32                                       | 16.84375000  | 8.53070120        |
|                                                      | CFLD25     | 32                                       | 15.80625000  | 6 • 12103394      |
| -                                                    | CFL0515    | 32                                       | 18.32500000  | 6.10494247        |
| - Ew York                                            | CFLD015    | 32                                       | 17,81562500  | 6.41249332        |
| Buttake Naw York                                     | CFLD1530   | 32                                       | 19.80312500  | 5.46292397        |
| RATION                                               | CFLD3045   | 32                                       | 20.11562500  | 5.22222974        |
| S CORPO                                              | C1SMO2     | 32,                                      | 16.79062500  | 8.78162889        |
| CONTROLL                                             | C1SM25     | 32                                       | 15.74687500  | 6.21927204        |
| RAPHIC C                                             | C15M515    | 32                                       | 18.39062500  | 6.16976809        |
| 0 E3 C                                               | C1SM015    | 32                                       | 17.8000000   | 6.48074070        |
| GFAPH PAPER GRAPHIC CONTROLS CORPORATION Prized MUSA | C1SM1530   | 32                                       | 20.04375000  | 5.80149800        |
| <b>E E E E E E E E E E</b>                           | CISM3045   | 32                                       | 20.19375000  | 5.50084671        |
|                                                      | CPRT5      | 32                                       | 22.20312500  | / 3.35804132      |
| & ₹                                                  | C2SM02     | 32                                       | 16.85937500  | 8.60006974        |
| PAGE IS QUALITY                                      | C2SM25     | 32                                       | 15.77812500  | 6.09927200        |
| 7                                                    | C2SM515    | 32                                       | 18.48125000  | 6.11024721        |
| ORIGINAL<br>OF POOR                                  | C2SM015    | 32                                       | 17.81250000  | 6.41720218        |
| ORK OF I                                             | C 2SM1 530 | 32                                       | 19.78750000  | 5.46104976        |
| · · · · · · · · · · · · · · · · · · ·                | C25M3045   | 32                                       | 20.12812500  | 5.15615726 -182   |

1

And the second s

| True . C     | errelation of the        |
|--------------|--------------------------|
| Table C      | crielation Coefficients: |
|              | FLD AVE Corn - Dalhart   |
|              | 11 1/2                   |
| VY.          |                          |
| 13.32<br>VV  | -5 .46 .45 .32           |
| 13.34        | 15 .60 .57 51            |
| 1.62         | 5 .58 57 57              |
| 1.62/3       | 5 18 11 .43              |
| 1 96.4       | 63 50 46                 |
| OV           | .07 .03 .57 20           |
| 1.6425       | . 65 .61 .56 .61 40      |
| 1 4 2/5      | .71 .70 .71 75           |
| र्म् स्टूर   | 80 .77 78 60             |
| 1/4/5        | 68 66 71                 |
| 175.25       | . 39 40 10 .66 .61       |
| 17545        | .46 .42 42 42 .42 .40.   |
| 7.7545<br>NS | 42 .43 .55 .35           |
| NYS NYS      | .30 .31 .40 .36 2-       |
| MEME         | 7.53 7.28 7.22 7.27 7.77 |
| 1            | 727 723 713 718 709 -172 |
| - 5          | -1007 .02 - 04 .01       |
| П            | .01 .03                  |

| Table 30 | Single | Voriable | Regressions | for FLD 6-2 |
|----------|--------|----------|-------------|-------------|
|          |        |          | Part - Corp |             |

| Independent<br>Variable | Intercept | Coefficient | RZ            | S.E.E. |
|-------------------------|-----------|-------------|---------------|--------|
| 13.3VV 415              | 37.57     | 5.45        | .356          |        |
| 1.6HH L15               | 71.01     | 35.8        | .459          |        |
| 1.6HV L15               | 115.88    | 4.16        | .447          |        |
| .4 HH L25               | 88.58     | 3.05        | .633          |        |
| .4HV LZO                | 70.78     | 1.84        | .457          |        |
| 4.75 HH L5              | -14.17    | 1.19        | .150          |        |
| 4.75HVL15               | 9.09      | .84         | 15.           |        |
| NS 1                    | 15.37     | 2.62        | .007          |        |
| NSZ                     | 15.00     | <b>20.5</b> | .014          |        |
| NS 3 .                  | 16.03     | 1.49        | .003          |        |
| NS 4                    | 12.04     | .607        | .089          |        |
| NS 5                    | 12.84     | . 88        | .068          |        |
| NS 6                    | 28.00     | -1.21       | .099          |        |
| NS 7                    | 28.04     | -3.33       | 108           |        |
| N 2 8                   | 24.28     | 33          | .018          |        |
| MFMR HL                 | 113.48    | 34          | .072          |        |
| MFMR HC                 | 34.9      | 06          | . <i>0</i> 02 |        |
| MFMR VC                 | 35.51     | 06          | .00Z          |        |
| Prt5                    | ≥2.61     | 26          | .010          |        |

| П        | correla                | tion       | Coef | ficien      | ts.                         | FLD V                              | FLO                      |
|----------|------------------------|------------|------|-------------|-----------------------------|------------------------------------|--------------------------|
| Table 31 |                        | ZDAV       |      | Bar         | e Com                       | bo - Dal                           | hert                     |
| n -      |                        | (-2        | 2-5  | 5-15        | 0-15                        | 15-30                              | 30-45                    |
|          | FLD.AVE<br>0-2         | _          | .82  | .69         | .37                         | ./3                                | .09                      |
|          | 2-5                    |            | -    | .27         | .37                         | .05                                | .63                      |
|          | 5-15                   |            |      | _           | .64                         | . 38                               | 57                       |
| 0        | 0-15                   |            |      |             |                             | .85                                |                          |
| U        | 15-30                  |            |      |             |                             |                                    | .77                      |
|          | 30-45                  |            |      |             |                             |                                    |                          |
|          |                        |            |      |             |                             |                                    |                          |
|          |                        |            |      |             | Subh                        | J.                                 |                          |
|          |                        |            |      |             | Sec.                        | nc.                                |                          |
|          |                        | FLD        | AVE  |             | 3200                        |                                    |                          |
|          |                        | FLD<br>C-3 | AVE  | 5-15        |                             |                                    | 20,45.                   |
|          | FLD AVE                | 0-2        |      | 5-15<br>.70 | C -15                       | 15-30                              | -C-45                    |
|          | FLD AVE<br>2-5         | 0-2        | 2-5  |             | C -15                       | 15-30                              |                          |
|          | FLD AVE<br>2-5<br>5-15 | 0-2        | 2-5  | .70         | <i>0-15</i><br>.23          | .15-30<br>.16                      | 14                       |
|          |                        | 0-2        | 2-5  | .70         | 0-15<br>.23<br>./4          | .15-30<br>.16<br>.07               | .14<br>.55<br>.53<br>.78 |
|          | 5-15<br>C-15           | 0-2        | 2-5  | .70         | 0-15<br>.23<br>./4          | .15-30<br>.16<br>.07<br>.54        | .14                      |
|          | 5-15<br>C-15<br>15-30  | 0-2        | 2-5  | .70         | 0-15<br>.23<br>./4          | .15-30<br>.16<br>.07<br>.54        | .14<br>.55<br>.53<br>.78 |
|          | 5-15<br>C-15           | 0-2        | 2-5  | .70<br>.75  | . 23<br>. 74<br>. 56<br>. — | .75-30<br>.76<br>.67<br>.54<br>.99 | .14<br>.55<br>.53<br>.98 |
|          | 5-15<br>C-15<br>15-30  | 0-2        | 2-5  | .70<br>.75  | 0-15<br>.23<br>./4          | .75-30<br>.76<br>.67<br>.54<br>.99 | .14<br>.55<br>.53<br>.98 |

| Teble 32 | Corre                              | FLD. |     | icient<br>Co       | es; | FLD vs | FLD                                      |
|----------|------------------------------------|------|-----|--------------------|-----|--------|------------------------------------------|
|          | 2-5<br>5-5<br>5-5<br>0-15<br>15-30 | 0->  | .97 | 5-15<br>.95<br>.96 | .99 | .97    | 30 45<br>.79<br>.86<br>.93<br>.90<br>.97 |

Disked Stubble

|        | FLD A | AVE | 134  |
|--------|-------|-----|------|
| FLDAVE | 6-2   | 2-5 | 5-15 |
| C-2    |       |     | . 84 |
| 2-5    |       |     | .90  |
| 575    |       |     |      |

#### III. Eigenvector and Factor Analysis

The utility of eigenvector and factor analyses was briefly explored. An important issue was examining the sense of the general and comparative movements (or trajectories) of the soil moisture variable (as affected by measurement depth) and for the scatterometers (as influenced by increasing look angle from nadir and polarization). Ideally, if the soil moisture was constant for all depths, perhaps the comparative trajectories of depth, look angle, and polarization would be suggestive of types of sensor kernels or weighting functions useful for a subsequent study of deconvolution of the soil moisture sensor measurements.

Obviously a significant problem is the extremely small sample size vis a vis the number of variables and the consequent constraints placed on such a general statistical study. The utility of factor analysis has been both advocated (cf. Vande Geer, 1971; Lawley and Maxwell, 1963) and maligned (Armstrong, 1967) at various times. Recently it was employed as an interpretation help (in concert with unsupervised clustering) for the complex radiometric and ground truth data in the microwave remote sensing of snow (Mätzler et al., 1982). Frank (1979) also used it with clustering in a categorization of watershed units.

Additional considerations on the validity and use of the factor graphs includes:

- o The potential of exploratory insight into the interactions\* concealed within the data set;
- o The reasonable relatedness of the factor displays via a rescaling and normalization of the factor axes to the eigenvectors. For example, a comparative display of the eigenvectors and factors of selected variables from the Guymon Bare and Dalhart Stubble data sets (Factor BX and Factor SX runs) are shown in Figures 312 (p.194) and 362 (p.221).

<sup>\*</sup>Note, for example in Figure 37, the 'oscillatory' variable-trajectory behavior (in factor space) of the 1.6 HH and 1.6 HV sensors for the Dalhart corn data and the contrasting, stationary trajectories for the 4.75 Ghz HH and HV sensors.

o The 'parent' eigenvector transformation has found very legitimate and extensive use in similar form in image enhancements for geophysical prospecting (Moik, 1981) and for crop phenology trajectories for multidate image analysis (Hallada, 1980).

An overview of the data sets analyzed herein and the cumulative fraction of variance represented by the first four selected eigenvectors is shown in Table 33. Similarly the cumulative fraction of the four rotated factors is included. This table overviews the second major run of eigenvector and factor analyses. It was preceded by the initial runs summarized in Table 34 which included all sensor variables. Table 33 and the factor graphs included herein have excluded the .4 Ghz HV and HH sensor outputs. This was done for two reasons: the correlation graphs shown earlier summarized the rather 'unusual' correlation behavior of the .4 Ghz data as a function of increasing look angle; hence further statistical studies based on such correlations would be suspect. Additionally, the large number of data points on the factor graphs 'begs' for some relief (especially in a format not showing the multicolor curves of the original).

Briefly the data transformations were effected via the SAS factor procedure. The sequence is similar to that cited by Matzler et al. (1982):

- o eigenvectors of the correlation matrix were determined;
- o the eigenvectors were stretched via a coodinate frame weighting that yields factor axes;
- o the centered data vectors were transformed into factor space via projections on the factor axes.

The sequence of data sets summarized by the factor graphs follows that of the preceding sections is 2

| TABLE 33 EIGENV    | FCTOR + FA | CTOR ANALY | SIS - OVER    | 116W-    |
|--------------------|------------|------------|---------------|----------|
|                    | FINAL      | Runs (Ex   | 13 .4 HH + .4 | HV)      |
| Factor BX 15 49    | 1          | _2         | 3             | <u>+</u> |
| eigenvolue         | ZZ.38      | 11.63      | 5.71          | 3.05     |
| Cum. 010-          | 45.7       | 69.4       | 87.1          | 87.3     |
| * rota. Yactor me. | 17.4       | 10.9       | 7.8           | 4.7      |
| Factor PX 10       |            |            |               | ·        |
|                    | 26.56      | 9.62       | 5.78          | 2.58     |
|                    | 54.2       | 73.8       | 85.6          | 90.9     |
|                    | 14.57      | 15.13      | 8.69          | 4.15     |
| Factor LX 14       | 26.86      | 8.47       | 6.10          | 2.80     |
|                    | 54.8       | 72.1       | 84.6          | 90.3     |
|                    | 21.28      | 10.96      | 7.30          | 4.68     |
| Factor AX 7        | 32.10      | 7.06       | 5.26          | 2.23     |
|                    | 65.5       | 79.9       | 90.7          | 95.2     |
|                    | 14.67      | 12.30      | 15.27         | 4.43     |
| Feetn ZX 16 55     | 21.25      | 12.48      | 2.90          | 5.12     |
| •                  | 38.6       | 61.3       | 25.7          | 85.0     |
|                    | 18.09      | 13.24      | 10.09         | 5.34     |
| Factor SX 26 63    | 24.54      | 15.95      | 6.80          | 4.15     |
|                    | 39.0       | 64.3       | 75.1          | 81.6     |
|                    | 18.74      | 15.74      | 10.6/         | 6.34     |
| Factor CX 31 63    | 25.42      | 15.32      | 6.00          | 3.37     |
|                    | 40.4       | 64.7       | 74.2          | 79.5     |
|                    | 14.27      | 11.43      | 17.07         | 7.35     |

\* note: Fector variance prior to rotation = eigenvalue

| YABLE 34 EIGENUE              | CTOR + FACT  | TOR BUALYELS | ~ OVER                   | 11 <b>5</b> W                |
|-------------------------------|--------------|--------------|--------------------------|------------------------------|
| TABLE 34 EIGENUE              | INITIAL      | RUNS         |                          | 1                            |
| RUN #m. Factor 15             |              | <b>2</b>     | 3                        | 4                            |
| ligenvolue                    | 25.99        | 13.67        | 11.30                    | 4.17                         |
| ligenvolul<br>Cumulative o 10 | 40.0         | 61.0         | 78.4                     | 84.8                         |
| robated forter reviews        | 21.37        | 11.03        | 16.34                    | 6-17                         |
| Factor 10                     | 28.84        | 16.22        | 7.36                     | 4.42                         |
|                               | 44.4         | 69.3         | 81.2                     | 88.0                         |
|                               | 15.36        | 17.89        | 10.05                    | 13.92                        |
| Factor L 14                   | 28.36        | 13.11        | 10.07                    | 5.54                         |
|                               | 43.6         | 63.8         | 79.3                     | 87.8                         |
| $\hat{E}$                     | 26.01        | 11.35        | 10.93                    | 8,79                         |
| Factor A 8                    |              |              |                          |                              |
|                               | 53.2         | 77.3         | <i>8</i> <del>6</del> .9 | 94.5                         |
|                               | 27.75        | 16.58        | 11.57                    | 5,55                         |
| Factor Z 16                   | 24.68        | 17.21        | 10.01                    | 5.54                         |
|                               | 34.8         | 59.0         | 73.1                     | B.9                          |
|                               | 20.25        | 19.25        | 11.67                    | 5.97                         |
| Factor S                      |              |              |                          |                              |
|                               | 36.5         | 56.5         | 67.5                     | 74.3                         |
|                               | 20.76        | 17.38        | 9.61                     | 10.94                        |
| Factor                        | 30.08        | 15.88        | 6.16                     | 3.74                         |
|                               | 42.4         | 64.7         | 73.4                     | 78.7                         |
| Additional Runs               |              |              |                          |                              |
| ALFFC                         |              |              |                          |                              |
| BAREFC                        |              |              |                          |                              |
| MPAR FC                       |              |              |                          |                              |
| MPERFC                        | RIGINAL PAGE | is           |                          | $rac{d}{dt} = rac{dt}{dt}$ |

#### Data Set Sequence of Factor Analysis Graphs

| Guymon                        | run code* |
|-------------------------------|-----------|
| Bare                          | В         |
| Milo. Perp.                   | R         |
| Milo. Par.                    | L         |
| Alfalfa                       | A         |
|                               |           |
| •                             |           |
|                               |           |
| Dalhart                       |           |
| Bare combined                 | Z         |
| Stubble <combined></combined> | S         |
| Disked Stubble                | D         |

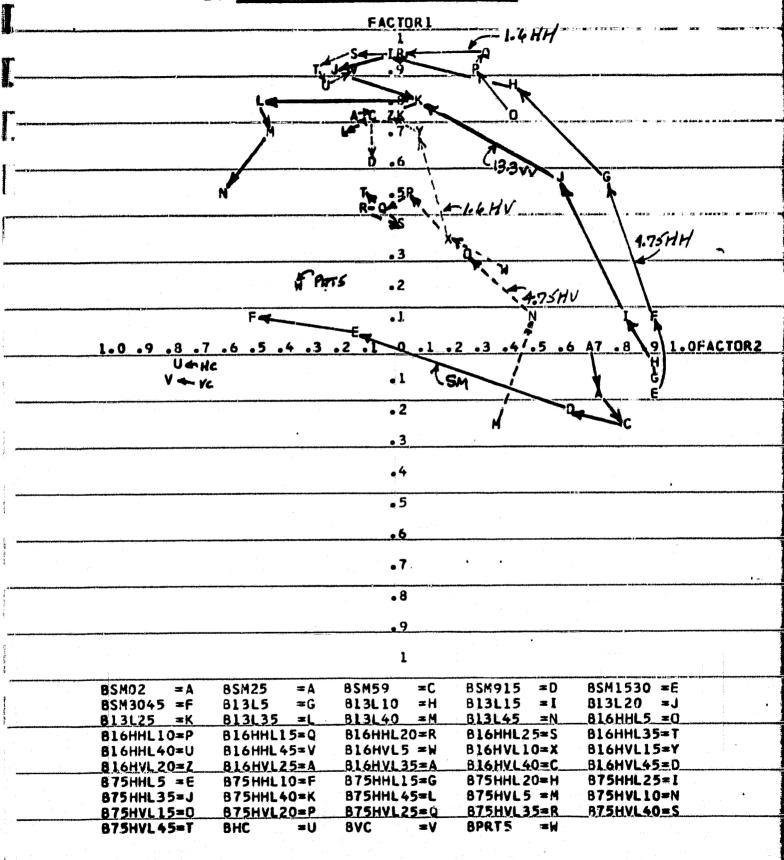
Corn

\*Note: When the letter X follows it designates data sets from which the .4 HV and .4 HH scatterometer data has been removed.

For each field cover type, the graph and table sequence is the following:

- o Trajec@ry plots (lines and data points) of highest two variance axes;
- Trajectory data points of third and fourth-ranked variance axes;
- o Table of the four-factor loadings after rotation which produced the above graphs and the orthogonal transformation matrix:
- o Table of four-factor loadings prior to rotation; and,
- o Table of the four eigenvectors from which the factors were stretched and weighted.

## FIG 31 GUYMON - BARE (FACTOR BY) - VARIABLE TRAJECTORIES



0.83742

0.54465

-0.03941

-0.02323

3

-0.04767

0.95050

0.15341 0.26598 0.39525

0.29190

-0.61297 -0.61874 0.37449

-0.09897

-0.55144

0.73884

|                                        | FACTORI             | FACTOR2                   | FACTOR3                                         | FACTOR4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | , , , , , , , , , , , , , , , , , , ,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------------|---------------------|---------------------------|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| _                                      |                     |                           |                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 🤌 BSMO2                                | 0.00261             | 0.66885                   | 0.61112                                         | 0.26569                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| P 8 SM25                               | -0.15160            | <b>0.71588</b>            | 0.39531                                         | 0.18813                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | s - A substitution about an experience of the description of the part of the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| e BSM59                                | -0.23339            | 0.80808                   | 0.03137                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| P BSM915                               | -0.22089            | 0.62298                   | -0.12601                                        | 0.59673                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>■ BSM1530</b>                       | 0.06688             | -0.13666                  | 0.09074                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| E BSM3045                              | 0.09787             | -0.50480                  | 0.11384                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 9 B13L5                                | -0.11372            | 0.91548                   | 0.15228                                         | -0.31466                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| # B13L10                               | <b>-0.</b> 06218    | 0.91964                   | 0.20600                                         | -0.25405                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | es esé ascinciales managembers — permissiones impresarantes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| € B13L15                               | 0-10356             | 0.82132                   | 0.23448                                         | -0.33768                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>5</b> B13L20                        | 0. 53335            | 0.58486                   | 0.44260                                         | -0.00814                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| ₩ B13L25                               | 0.78067             | 0.07384                   | 0.52841                                         | 0.09504                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| ▲ B13L35                               | 0.78518             | -0.48386                  | 0.12684                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| M 813L40                               | 0.68356             | -0.45450                  | 0.16703                                         | 0.47585                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | * · · · · · · · · · · · · · · · · · · ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| # 813L45                               | 0.51566             | -0.60133                  | 0.07500                                         | 0.47138                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| : B16HHL5                              | 0.74976             | 0.41045                   | 0.09296                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| P 816HHL10                             | 0.90629             | 0.29232                   | 0.08131                                         | -0.16394                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 9 816HHL15                             | 0.93282             | 0.30310                   | 0.15352                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 12 B16HHL20                            | 0.96627             | 0.01052                   | -0.05789                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| S 816HHL25                             | 0.96710             | -0.13817                  | -0.08282                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 7 B16HHL35                             | 0.39244             | -0.26810                  | -0.15505                                        | 0.14038                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| U 816HHL40                             | 0.85554             | -0.26481                  | -0.20268                                        | 0.31503                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| V 816HHL45                             | 0:90372             | -0.16608                  | 0.03598                                         | 0.27395                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | #<br>#*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <u> </u>                               | 0.22561             | 0.38141                   | -0.53872                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| y B16HVL10                             | 0.33086             | 0.16737                   | 0-58523                                         | 0-11878                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Y 816HVL15                             | 0.69219             | 0.09569                   | 0.61634                                         | 0.13763                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 2 B16HVL 20                            | 0.75789             | -0.01135                  | 0.50189                                         | 0.20223_                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| # B16HVL25                             | 0.76576             | -0.13395                  | 0.55726                                         | 0.23627                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| B16HVL35                               | 0.77187             | -0.13954                  | 0.54526                                         | 0-21734                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 0 B16HVL40                             | 0.76773             | -0.09277                  | 0.40440                                         | 0.38008<br>0.28212                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <del> </del>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| B16HVL4%<br>B75HHL5                    | 0.61872<br>-0.15237 | -0.07685<br>0.92171       | -0.64891<br>-0.27783                            | -0.15140                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <del></del> :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| € 875HHL5<br>€ 875HHL10                | 0.12071             | C. 93197                  |                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                        | 0.54481             | 0.76263                   | -0.14752                                        | C.10186                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 6 875HHL15<br>875HHL20                 | 0.86358             | 0.40688                   | -0.01636                                        | 0.20278                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 875HHL25                               | 0.95983             | -0.02616                  | 0.11875                                         | 0.19700                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 5 875HHL35                             | 0.88512             | -0.21316                  | 0.22566                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                        | 0.76715             | 0.00087                   | 0.52340                                         | 0.28672                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>№</b> 875HHL40<br><b>№</b> 875HHL45 | 0.70811             | -0.19711                  | 0.47072                                         | 0.44705                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| M 875HVL5                              | -0.24095            | 0.34065                   | -0.24186                                        | -0.16440                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | and the former of the contract |
| N 875HVL10                             | 0.11217             | 0.46892                   | 0.68678                                         | 0.25272                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 0 B75HVL15                             | 0.28460             | 0.24778                   | 0.04321                                         | 0.82961                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| P 875HVL 20                            | 0.48891             | 0.04212                   | 0.46870                                         | 0.71386                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                        | 0.47072             | -0.05528                  | 0.36498                                         | 0.77800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 875HVL25<br>875HVL35<br>875HVL40       | 0.46448             | -0.11988                  | 0.56835                                         | 0.63532                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 6 B75HVL40                             | 0.41066             | 0.02404                   | 0.68055                                         | 0.58299                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 7 875HVL45                             | 0.49371             | -0.12961                  | 0.50689                                         | 0.68595                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                        | -0.03535            | -0.78488                  | -0.59071                                        | -0.08013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| ₩ BHC                                  | -0.08267            | -0.80061                  | -0.56540                                        | -0.07091                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| W BPRT5                                | 0.18750             | -0.33851                  | -0.85057                                        | 0.14252                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                        |                     | The Box Method of Control | For these services and the service of Auditoria | ele inicia <mark>literalia mentena </mark> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                        | ORTHOGONAL          | I KANSPUKMA               | TUN MATKI                                       | <u>~</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                        |                     | •                         | •                                               | . •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

## TABLE 35 GUYMON - BARS (FACTOR PATTERN

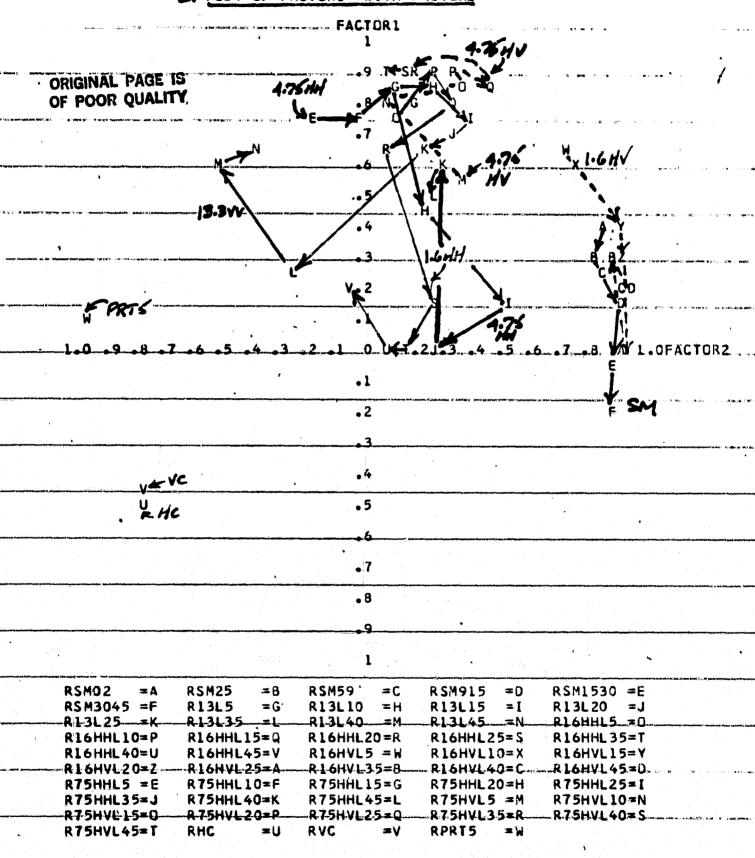
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                 | FACTOR1  | FACTOR2  | FACTOR3         | FACTOR4         | an banga melanda menyeleka filirin mendebunya menuntuk permenyeleka menyeleka bank                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------|----------|-----------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | n c wo o        | 0 21125  | 0 70772  | 0 41700         | 0.00000         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | BSMO2           | 0.31135  | 0.78773  | -0.41708        | -0.00398        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| · · · · · · · · · · · · · · · · · · ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | BSM25           | 0.06562  | 0.78319  | <u>-0.31880</u> |                 | 表 (COP DF - NO リビタス・Virging Transport NO T   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | BSM59           | -0.13226 | 0.76283  | -0.15388        | 0.37714         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | B\$M915         | -0.04101 | 0.50501  | -0.27656        | 0.68968         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | BSM1530         | 0.38865  | -0.18275 | -0.46758        | 0.47862         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | B\$M3045        | 0.38267  | -0.51166 | -0.43503        | 0.25007         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | B13L5           | -0.19651 | 0.95024  | 0.15868         | -0.08056        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | B13L10          | -0.10963 |          |                 | 0.06911         | unit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | B13L15          | 0.01380  | 0.87845  | 0.22488         | -0.17852        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | B 1 3L 20       | 0.59064  | 0.66489  | 0.11340         | -0.13670        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | B13L25          | 0.89467  | 0.18425  | 0.06020         | -0.25522        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | B13L35          | 0.80041  | -0.47224 | 0.17304         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | B13L40          | 0.83831  | -0.45728 | -0.06222        | 0.11146         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | B13L45          | 0.66665  | -0.61664 | -0.11731        | 0.12994         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | B 16HHL 5       | 0.51761  | 0.42139  | 0.60199         | -0.21717        | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | B16HHL10        | 0.71576  | 0.28209  | 0.57901         | -0.11474        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Bl6HHL15        | 0.82281  | 0.29736  | 0.46720         | <u>-0.04508</u> | acy #paylords are publication and the control of th |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | B16HHL20        | 0.82801  | -0.05614 | 0.50119         | 0.09948         | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| (                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | B16HHL25        | 0.80926  | -0.20037 | 0.51868         | 0.04243         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <u>816HHL35</u> | 0.75141  | -0.34915 | 0.46257         | 0.10761         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | B 16HHL 40      | 0.76693  | -0.37576 | 0.37586         | 0.26785         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | B16HHL45        | 0.88152  | -0.21009 | 0.29361         | 0-11498         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | B16HVL5         | -0.10538 | 0.21309  | 0.60467         | 0.30485         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | B16HVL10        | 0.54488  | 0.30512  | -0.21835        | -0.23751        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | BI6HVL15        | 0.87023  | 0.22996  | -0.06202        | -0.27030        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | B16HVL20        | 0.90932  | 0.08583  | -0.00812        | -0.18174        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | B16HVL25        | 0.95638  | -0.01822 | -0.07535        | -0.22364        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | B16HVL35        | 0.94993  | -0.02540 | -0.05509        | -0.23184        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | B16HVL40        | 0.94950  | -0.03801 | -0.05357        | -0.01190        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | B16HVL45        | 0.88392  | 0.06407  | -0.22814        | -0.22788        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | B 75HHL 5       | -0.33805 | 0.81597  | 0.31220         | 0.30874         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 875HHL10        | -0.00946 | 0.82472  | 0.31186         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | B75HHL15        | 0.39972  | 0.65026  | 0.44798         | 0.35672         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 8 75HHL 2 0     | 0.77326  | 0.32786  | 0.43098         | 0.24811         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | B75HHL25        | 0.92573  | -0.04753 | 0.33733         | 0.04282         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | B75HHL35        | 0.93355  | -0.19619 | 0.17413         | -0.03341        | . Against the second se |
| · · · · · · · · · · · · · · · · · · ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 875HHL 40       | 0.95663  | 0.09500  | -0.06098        | -0.12960        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | B 75HHL 45      | 0.95584  | -0.12210 | -0.17963        | -0.02983        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | B75HVL5         | -0.37518 | 0.27895  | 0.15994         | 0.12438         | mangh, sile apadh s is minis. If phononic area amountains the array is a product that they is the section of t                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 375HVL10        | 0.43767  | 0.61674  | -0.42730        | -0.11610        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 875HVL15        | 0.55428  | 0.15481  | -0.29095        | 0.64551         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | B 75HVL 20      | 0.86000  | 0.08693  | -0.40820        | 0.23727         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | B75HVL 25       | 0.83243  | -0.04156 | -0.40484        | 0.32335         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | B 75HVL 35      | 0.85724  | -0.02923 | -0.46413        | 0.07506         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| the second secon | B75HVL40        | 0.83005  | 0.14762  | -0.51129        | 0.00651         | n kurakisakun tunn alkaken propinsi mangimenni mendelengan dianggan dianggan pengalah pengala |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 875HVL45        | 0.87684  | -0.06257 | -0.43996        | 0.14723         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | BHC             | -0-25567 | -0.90913 | 0.26661         | 0.09836         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | BVC             | -0-28110 | -0.91574 | 0.21783         | 0.08642         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| The state of the s | BPRT5           | -0.10966 | -0.59153 | 0.49298         | 0.53719         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 05013           | -0.10300 | -0.23733 | V4 T7470        | 0423117         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                 |          |          |                 |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

### TABLE 36 GUY MON - BARE (Factor BX)

| c. | EIGENVECTORS |
|----|--------------|
| •  |              |

|                                                                                                                 |                            | 1                    | 2                    | 3                    |                     | *******                            |
|-----------------------------------------------------------------------------------------------------------------|----------------------------|----------------------|----------------------|----------------------|---------------------|------------------------------------|
|                                                                                                                 |                            |                      |                      |                      |                     |                                    |
|                                                                                                                 | BSM02                      | 0.06582              | 0.23099              | -0.17450             | -0.00228            |                                    |
|                                                                                                                 | BSM25<br>BSM59             | -0.01387<br>-0.02796 | 0.22966              | -0.13338<br>-0.06438 | 0.05059<br>0.21601  | ****                               |
|                                                                                                                 | BSM915                     | -0.00867             | 0.14809              | -0.11570             | 0.39502             | 1                                  |
|                                                                                                                 | BSM1530                    | 0.08216              | -0.05359             | -0.19562             | 0.27413             | i                                  |
| · · · · · · · · · · · · · · · · · · ·                                                                           | B SM3045                   | 0.08090              | -0.15004             | -0.18201             | 0.14323             | <del></del>                        |
| -                                                                                                               | B13L5                      | -0.04154             | 0.27864              | 0.06639              | -0.04614            | *                                  |
|                                                                                                                 | B13L10                     | -0.02318             | 0.28205              | 0.05064              | -0.03958            |                                    |
|                                                                                                                 | B13L15                     | 0.00292              | 0.25759              | 0.09409              | -0.10225            | An SIRE SHOWN AND BARROWS          |
|                                                                                                                 | B13L20                     | 0.12486              | 0.19497              | 0.04744              | -0.07830            | . :                                |
|                                                                                                                 | 813125                     | 0.18914              | 0.05403              | 0.02519              | -0.14618            |                                    |
|                                                                                                                 | B13L35                     | 0.16921              | -0.13848             | 0.07240              | -0.05036            |                                    |
|                                                                                                                 | B13L40                     | 0.17722              | -0.13409             | -0.02603             | 0.06384             |                                    |
|                                                                                                                 | B13L45                     | 0.14093              | -0.18082             | -0.04908             | 0.07443             |                                    |
|                                                                                                                 | 816HHL5                    | 0.10942              | 0.12357              | 0.25185              | -0.12438            |                                    |
|                                                                                                                 | B16HHL10                   | 0.15131              | 0.08272              | 0.24224              | -0.06572            |                                    |
|                                                                                                                 | 816HHL15                   | 0.17394              | 0.08720              | 0.19547              | -0.02582            |                                    |
|                                                                                                                 | B16HHL20                   | 0.17504              | -0.01646             | 0.20969              | 0.05698             |                                    |
|                                                                                                                 | 816HHL 25                  | 0.17108              | -0.05876             | 0.21700              | 0.02430             |                                    |
|                                                                                                                 | 816HHL35                   | 0.15885              | -0.10238             | 0.19353              | 0.06164             |                                    |
|                                                                                                                 | B16HHL40                   | 0.16213              | -0.11019             | 0.15725              | 0.15341             | :                                  |
|                                                                                                                 | B 16HHL 45                 | 0.18635              | -0.06161             | 0.12284              | 0.06586             |                                    |
|                                                                                                                 | 816HVL5                    | -0.02228             | 0.06249              | 0.25298              | 0-17461             |                                    |
|                                                                                                                 | B16HVL10                   | 0.11519              | 0.08947              | -0.09135             | -0.13604            | :                                  |
|                                                                                                                 | B16HVL15                   | 0.18397              | 0.06743              | -0.02595             | -0.15482            |                                    |
| Carles and the Carles and Management and Management and Management and Management and Management and Management | B16HVL20                   | 0.19223              | 0.02517              | -0.00340             | -0.10410            |                                    |
|                                                                                                                 | B16HVL25                   | 0.20218              | -0.00534             | -0.03153             | -0.12810            |                                    |
|                                                                                                                 | 816HVL35                   | 0.20082              | -0.00745             | -0.02305             | -0.13279            |                                    |
|                                                                                                                 | B16HVL40                   | 0.20073              | -0.01114             | -0.02241             | -0.00682            |                                    |
|                                                                                                                 | B16HVL45                   | 0.18686              | 0.01879              | -0.09545             | -0.13052            |                                    |
|                                                                                                                 | B 75HHL 5                  | -0.07146             | 0.23927              | 0.13062              | 0.17683             |                                    |
| ***                                                                                                             | 875HHL10                   | -0.00200             | 0.24184              | 0.13047              | 0.21487             |                                    |
|                                                                                                                 | B75HHL15                   | 0.08450              | 0.19068              | 0.18742              | 0.20432             |                                    |
|                                                                                                                 | B75HHL 20                  | 0.16347              | 0.09614              | 0.18031              | 0.14211             | :                                  |
|                                                                                                                 | B75HHL25                   | 0.19570              | -0.01394<br>-0.05753 | 0.14113              | 0.02453<br>-0.01914 |                                    |
|                                                                                                                 | 875HHL35                   | 0.19735              |                      | -0.02551             | -0.01914            |                                    |
|                                                                                                                 | B 75HHL 4 0<br>B 75HHL 4 5 | 0.20223<br>0.20207   | 0.02786<br>-0.03580  | -0.07515             | -0.01709            | 1                                  |
|                                                                                                                 | B75HVL5                    | -0.27931             | 0.08180              | 0.06691              | 0.07124             | k tem der vo. 2000 (svidde ) og de |
|                                                                                                                 | 875HVL10                   | 0.09252              | 0.18085              | -0.17877             | -0.06650            |                                    |
|                                                                                                                 | B 75HVL 15                 | 0.09232              | 0.04540              | -0.12173             | 0.36972             |                                    |
|                                                                                                                 | B75HVL20                   | 0.18180              | 0.02549              | -0.17078             | 0.13590             |                                    |
|                                                                                                                 | B 75HVL 25                 | 0.17598              | -0.01219             | -0.16938             | 0.18520             | 1                                  |
|                                                                                                                 | 875HVL35                   | 0.18122              | -0.00857             | -0.19418             | 0.16320             | 1                                  |
|                                                                                                                 | 875HVL40                   | 0.17547              | 0.04329              | -0.21391             | 0.00373             |                                    |
|                                                                                                                 | B75HVL45                   | 0.18537              | -0.01835             | -0.18407             | 0.08433             | K.                                 |
|                                                                                                                 | BHC                        | -0.05405             | -0.26659             | 0.11154              | 0.05633             |                                    |
| <del>a, i ja </del>                                                         | BVC                        | -0.05942             | -0.26853             | 0.09113              | 0.04950             |                                    |
|                                                                                                                 | <b>₩ 7 ₩</b>               |                      |                      |                      |                     |                                    |
|                                                                                                                 | BPRT5                      | -0.02318             | -0.17346             | 0.20625              | 0.30768             |                                    |

## FIG 32 GUSMON - MILO. PERP (FACTORIES) - VARIABLE TRAJECTORIES a. PLOT OF FACTORI WITH FACTORE



#### GUYMON - MILO, PERP (FACTOREX) Fig 32 & PLOT OF FACTORS WITH FACTOR4 FACTOR3 . 8 ORIGINAL PAGE IS OF POOR QUALITY .7 . 5 . 4T I C S ZP • 2 BR FA HG E .3 .4 .1 . 2 Ü N4 . 8 RSM02 ∓A RSM25 =B RSM59 =C RSM915 RSM1530 =E = DRSM3045 =F R13L5 =GR13L10 =H R13L15 = I R13L20 R13L25 = JR13L35 =L R13L40 = M R13L45 =NRIGHHL5 =0 R16HHL10=P R16HHL15=0 R16HHL20=R R16HHL25=S R16HHL35=T R16HHL40=U R16HHL45=V R16HVL5 =W R16HVL10=X R16HVL15=Y R16HVL 20=Z R 16HVL25=A R16HVL35=B R16HVL40=C R16HVL45=D R75HHL5 =E R75HHL10=F R75HHL15=G R75HHL20=H R75HHL25=1 R75HHL35=J R75HHL40=J R75HVL10=N R75HHL45=L R75HVL5 =M R75HVL15=0 R75HVL20=P R75HVL25=0 R75HVL35=R R75HVL40=S RHC R75HVL45=T RVC RPRT5 =W

|                                             |                                       |                                       | e RUTAT                               | ED FACTUR           | PATTERN            | Of. 14             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------|--------------------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ·                                           |                                       |                                       | FACTOR1                               | EACTOR2             | FACTOR3            | EACTOR4            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                             | ,                                     |                                       |                                       |                     |                    |                    | management   president of the formal management of the management of the formal management of th |
|                                             | ·A                                    | RSMC2                                 | 0.38760                               | 0.86035             | 0.10577            | 0.23238            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Ţ                                           |                                       | RSM25                                 | 0.28334                               | 0.81439.            | 0.21224_           | 0.41563            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                             | C                                     | RSM59                                 | · 0.27239                             | 0.84385             | 0.18239            | 0.32098            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                             | 2                                     | RSM915                                | 0.17461                               | 0.90873/            |                    | 0.33527            | *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| *                                           |                                       | RSM1530                               | -0.06057                              | 0.87374             | 0.04386_           | 0.27427            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| $\dot{\vec{a}}$                             | F                                     | RSM3045                               | -0.18299                              | 0.87724             | 0.09150            | 0.16683            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| •                                           | 6                                     | R13L5                                 | 0.85788                               | 0.12298             | 0.11021            | 0.40396            | <i>F</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 4                                           | H                                     | R13L10                                | 0.85712                               | 0.25315.            |                    | 0.39128            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| :                                           | ę.                                    | R13L15                                | 0.76464                               | 0.39838             | 0.40404            | 0.24896            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| •                                           | 4                                     | R13L20                                | 0.67924                               | 0.31216             | 0.59046            | 0.06020            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                             | <u></u> Ķ_                            | R13L25                                | 0.65546                               | 0.20955             | 0.61250            | 0.03813            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1                                           | 7                                     | R13L35                                | 0.26739                               | -0.23373            | 0.86316            | 0.27638            | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 4                                           | N                                     | R13L40 ,                              | 0.60764                               | -0.53101            | 0.29454            | 0.27398            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                             |                                       | R13L45                                | 0.65443                               | -0.38272            |                    | -0.02006           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                             | P                                     | R16HHL5<br>R16HHL10                   | 0.73426<br>0.92255                    | 0.11003<br>0.25476  | 0.40185<br>0.18030 | 0.48083<br>0.19403 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                             |                                       | R16HHL15                              | 0.80721                               | 0.32751             | 0.18030            | -0.1180.6          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <del></del>                                 | 7.                                    | R16HHL20                              | 0.65357                               | 0.07737             | 0.59339            | 0.40525            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                             | R                                     | R16HHL25                              | 0.14329                               | 0.25777             | , 0.76858          | 0.38216            | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                             | Ş                                     | R16HHL35                              | 0.00593                               | 0.16590             | 0.88151            | -0.34881           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| . : (C) (C (C) (C) (C) (C) (C) (C) (C) (C)  | <u>ا</u>                              |                                       | 0.00551                               | 0.08793             | 0.91818            | -0.09726           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                             | V                                     | R16HHL45                              | 0.19978                               | -0.06509            | 0.91337            |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                             | UT                                    | R16HVL5                               | 0.66582                               | 0.71992             | -0.03555           | 0.09821            | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                             | X                                     | R16HVL10                              | 0.61175                               | 0.76436             | -0.01849           |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                             | Ÿ                                     | R16HVL15                              | 0.38804                               | 0.90766             | -0.01501           | -0.10292           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                             |                                       | R16HVL20_                             | 0.29737                               |                     | 0.19910            | 0.12953            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                             | A                                     | R16HVL25                              | -0.01374                              | 0.91757             | 0.25702            | 0.05249            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| ·                                           | 8                                     | R16HVL35                              | 0.29733                               | 0.89625             | 0.09883            | -0.23231           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                             | <u> </u>                              | R16HVL40                              | 0.20885                               | 0.90201             | 0.23095            | -0.22455           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                             | P                                     | R16HVL45                              | 0.20588                               | 0.94913             | 0.07257            | -0.18911           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                             |                                       | R 75HHL 5                             | 0.73670                               | -0.17066            | 0.08652            | 0.53925            | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                             |                                       | R75HHL 10                             | 0.73767                               | -0.00570            | -0.05312           | 0.62995            | e.<br>O light pursuigh 2001 - <del>destinations destinations des</del> la Chapt 100 M in 127 M Chapt 127 (127 Après 127 Après 127 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                             | 6                                     | R75HHL15                              | 0.78016                               | 0.18831             | 0.03247            | 0.51116            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| T.                                          | H                                     | R75HHL20                              | 0.47375                               | 0.22487             | 0.58930            | 0.45432            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| **************************************      |                                       | R75HHL25                              | 0-16093                               | 0.51793             |                    | 0.49153            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1.                                          | J                                     | R 75HHL35                             | 0.02007                               | 0.24735             | 0.92150            | 0.14696            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                             | K                                     | R 75HHL 40                            | 0.57524                               | 0.29516             | 0.72250            | 0.10168            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| A - April 600 days for figure species       |                                       | R75HHL 45-                            | 0.50473                               | -0.24106-           | 0-55130            |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                             | M                                     | R75HVL5                               | 0.54332                               | 0:36442             | 0.37485            | 0.57062            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                             |                                       | R75HVL10                              | . 0.78651                             | 0.08704             | 0.35968            | 0.27577            | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                             | <u> </u>                              | -R75HVL15-                            | 0.86050                               | 0.35526_            | 0.05091-           | 0.09146            | egenne – krammanismogramic i madi proditivose i didite interior in ittalie                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| A.                                          |                                       | R75HVL20                              | 0.91846                               | 0.33053             | 0.02020            | -0.02433           | 4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 1                                           | 9                                     | R 75HVL 25                            | 0.82867                               | 0.46556             | 0.65120            | C.08224            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| F ISSUES & - Printings St. T. Co. Printings | · · · · · · · · · · · · · · · · · · · |                                       | <b>0-91381</b> -                      | 5 10 1 <del>2</del> | 0,11137.           | -0.15026           | e e e e e e e e e e e e e e e e e e e                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                             | <u> </u>                              | R75HVL40                              | 0.91790                               | 0.14594             | 0.18438            | -0.10334           | <b>.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                                             | 7.                                    | R 75HVL 45                            | 0.88586                               | 0.08573             | 0.37608            | 0.05520            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                             | 7                                     | -RHC                                  | -0-48165                              | 0-77958             | -0-24884           | -0.11068           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| r*                                          | Ň                                     | RVC                                   | -0.44797                              | -0.77449            | -0.32228           | -0.13166           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                             | ~                                     | RPRT5                                 | 0.08418                               | -0.96689            | -0.02391           | 0.17091            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1                                           |                                       | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | ORTHOGONAL                            | TRANSFORMA          | TION MATRI         | <b>X</b>           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| \$ .                                        |                                       |                                       | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |                     |                    |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                             |                                       |                                       |                                       |                     |                    |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

| 1 | 0.69591  | 0.57135  | 0.36853  | 0.23120 |
|---|----------|----------|----------|---------|
| 2 | 0.49713  | -0.81889 | 0.20478_ | 0.20088 |
| 3 | -0.44529 | -0.04207 | 0.89420  | 0.01894 |
| 4 | -0.26511 | 0.03488  | -0.15054 | 0.95175 |

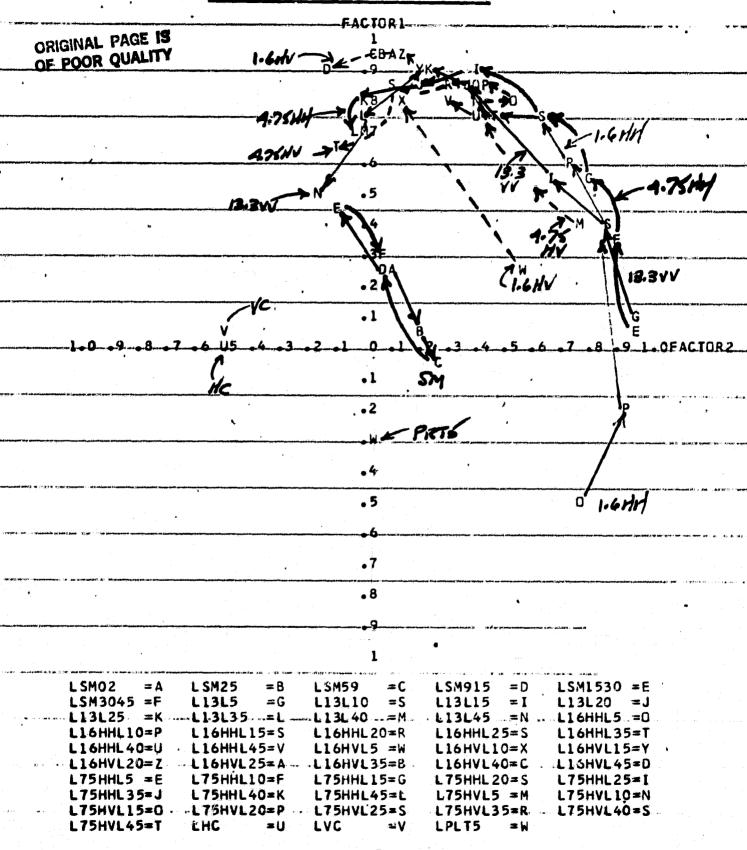
## TABLE 36 GUYMON - MILO. PERP (FACTORRY)

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                     |                    |                     |          |                      | ORIGINAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | PAGE 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------|---------------------|----------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| . ,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                     | , F. E             |                     | OF POOR  | QUALITY              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                     | FACTORL            | FACTOR2             | FACTOR3  | FACTOR4              | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | RSM02               | 0.85400            | -0.44350            | -0.10980 | 0.13250              | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| وخدوم لسمت ويودان والمادانية                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | RSM25               | 0.83679            | -0.39909            | 0.03723  | C-31692              | **************************************                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | RSM59               | 0.81312            | -0.45377            | 0.01239  | 0.23526              | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| ,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | RSM915              | 0.70844            | -0.59544            | -0.13338 | 0.30850              | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | RSM1530             | 0.50430            | -0.69949            | -0.04381 | 0.31417              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | R SM3045            | 0.44616            | -0.75708            | 0.12956  | 0.22412              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | R13L5               | 0.80128            | 0.42949             | -0.28098 | 0.14473              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | R13L10              | 0.87325            | 0.32055             | -0.28380 | 0.13698              | *****************                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | R13L15              | 0.96620            | 0.18665             | 0.00876  | -0.01270             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | R13L20              | 0.88256            | 0.21506             | 0.21354  | ÷0.20078             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | R13L25              | 0.81041            | 0.28734_            | 0.24774  |                      | #<br>Nacional designation of the contract of the | **************************************                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | R13L35              | 0.43454            | 0.55660             | 0.66784  | 0-05406              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | R13L40              | 0.29137            | 0.85226             | 0.02033  | 0.03680              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | R13L45              | 0.07746            |                     | 0.65098_ | -0.14276             | faceup policinamente provincia indicalización e                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | o presidentales de la compressión de la compress |
| •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | R16HHL5             | 0.83311            | 0.45380             | 0.03686  | 0.20631              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | R16HHL10            | 0.89888            | 0.32591             | -0.25661 | -0.07817             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| ····                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | R16HHL15            | 0.80901            | 0.15797             | -0.16329 | 0.35066              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | R16HHL20            | 0.81141            | 0.46447             | 0.24401  | 0.12580              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | R16HHL25            | 0.61859            | 0.09431             | 0.61985  | 0.21902              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| and the second s | R16HHL35            | 0-34312            |                     | 0.77202  | -0.46047<br>-0.22918 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | R16HHL40            | 0.36995            | 0.09922             | 0.81304  | -0.18150             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | R16HHL45            | 0.44117            | 0.34203<br>-0.24609 |          |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | R16HVL5<br>R16HVL10 | 0.88429<br>0.83740 | -0.34143            | -0.32259 | -0.20779             | الحيد في من المراجعة المن المساحدة المناجع والمدورة والمراجعة المناجعة المن   | gangalaringi industriale - 18°45 sapabagan inggang gangalaring gangalaring gangalaring gangalaring gangalaring                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | R16HVL15            | 0.75931            | -0.57411            | -0.22634 | -0.16691             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | R16HVL20            | 0.82994            |                     | 0.00981  |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | R16HVL25            | 0.6215.5           | -0.69504            | 0.19834  | 0.04692              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | AND DESCRIPTIONS AND ADDRESS OF COMMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | R16HVL35            | 0.70170            | -0.61255            | -0.08613 | -0.28354             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | R16HVL40            | 0.69390            | -0.63263            | 0.07132  | -0.27239             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | R16HVL45            | 0.66858            | -0.69800            | -0.07029 | -0.21238             | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | R75HHL5             | 0.57174            | 0.63203             | -0.23328 | 0.29894              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | R75HHL-10           | 0.6361.7           |                     |          |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | R 75HHL 15          | 0.78066            | 0.34297             | -0.31660 | 0.28134              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | R 75HHL 20          | 0.78039            | 0.26331             |          | 0.22593              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | R75HHL25            |                    | 0.15698             |          | 0.37822              | :<br>Innango est (films/2-es) ( habito) (in initial)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | R 75HHL 35          | 0.52886            | 0.02565             | 0.80745  |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | R 75HHL 40          | 0.85873            | 0.21265             | 0.37942  |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                     |                    |                     |          |                      | والمستور المعارض المعا   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | R75HVL5             | 0.85638            | 0.16307             | 0.08873  | 0.35533              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | R75HVL10            | 0.79338            | 0.44877             | -0.02703 | 0.00284              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| regis toleranis con Televisioniscopi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | R75HVL15            |                    |                     |          | C.1-3635-            | and the second s   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | R75HVL 20           | 0.82984            | 0.18518             | -0.40528 | -0.25817             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | R 75HVL 25          | 0.88056            | 0.05772             | -0.34124 | -0.13289             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| a min y alone ann ann - ne sear                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | R75HVL35            | 0.74719            |                     |          |                      | and the separate of the second   | The second second                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | R 75HVL 40          | 0.76622            | 0.35381             | -0.25195 | -0.36437             | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | R 75HVL 45          | 0.81682            | 0.45829             | -0.06073 | -0.23594             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| والموائد مسرانات بموسور وبي                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | RHC                 | -0-89790           |                     |          |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | The state of the s |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | RVC                 | -0.90347           |                     |          | 0.01496              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | RPRT5               | -0.46315           | 0.86305             | -0.01495 | 0.11022              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     |                    |                     |          |                      | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | and particular to display the second section is a succession.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

## THELE 36 GUYMON-MILD. PERP (FACTORRE)

| ORIGINAL PAGE IS     | C.                  | EIGENVECTO           | IRS                  | <u>no a la del Metaloni una a construcció e del series de pripriese del</u><br>, | A.T.                                    |
|----------------------|---------------------|----------------------|----------------------|----------------------------------------------------------------------------------|-----------------------------------------|
| OF POOR QUALITY.     | 1                   | ·                    | 3                    | 4                                                                                |                                         |
|                      |                     |                      |                      |                                                                                  |                                         |
| R SMUZ               | 0.16572             | -0.14299             | -0.04566             | 0.08249                                                                          |                                         |
| RSM25                | 0.16238             | 0.12867_             | 0.01548              | 0.19729_                                                                         | -                                       |
| RSM59                | 0.15779             | -0.14630             | 0.00515              | 0.14646                                                                          |                                         |
| RSM915<br>RSM1530    | 0.13747             | -0.19198<br>-0.22552 | -0.05546<br>-0.01822 | 0,19206                                                                          |                                         |
| R \$M3045            | 0.09786<br>0.08658  | -0.24409             | 0.05387              | 0.19559<br>0.13953                                                               |                                         |
| R13L5 ·              | 0.15549             | 0.13847              | -0.11683             | 0.09010                                                                          |                                         |
| R13L10               | 0.16945             | 0.10335              | -0.11800             | 0.08528                                                                          |                                         |
| R13L15               | 0.18749             | 0.06018              | 0.00364              | -0.00790                                                                         | * * \$P##4                              |
| . R13L20             | 0.17126             | 0.06934              | 0.08879              | -0.12500                                                                         |                                         |
| R13L25               | 0.15726             | 0.09264              | 0.10301              | -0.13844                                                                         |                                         |
| R13L35               | 0.08432             | 0.17945              | 0.27768              | 0.03366                                                                          |                                         |
| R13L40               | 0.05654             | 0.27478              | 0.00845              |                                                                                  |                                         |
| R13L45               | 0.01503             | 0.17693              | 0.27067              | -0.08888                                                                         | <del></del>                             |
| R16HHL5              | 0.16167             | 0.14631              | 0.01532              | 0.12844                                                                          |                                         |
| R16HHL10<br>R16HHL15 | 0.17443<br>0.15699  | 0.10508<br>0.05093   | -0.10670             | -0.04866                                                                         |                                         |
| R 16HHL 20           | 0.15745             | 0.14975              | -0.06790<br>0.10146  | -0.21830<br>0.07831                                                              | *************************************** |
| R16HHL25             | 0.12004             | 0.03041              | 0.25773              | 0.13635                                                                          |                                         |
| R16HHL35             | 0.06658             | -0.00724             | 0.32100              | -0.28666                                                                         |                                         |
| R16HHL40             | 0.07179             | 0.03199              | 0.33805              | -0.14268                                                                         |                                         |
| R16HHL45             | 0.08561             | 0.11028              | 0.30383              | -0.11299                                                                         |                                         |
| R16HVL5              | 0.17160             | -0.07934             | -0.14831             | -0.03274                                                                         |                                         |
| R16HVL10             | 0.16250             | -0.11008             | -0.13413             | -0.12936                                                                         | •                                       |
| R16HVL15             | 0.14734             | -0.18510             | -0.09411             | -0.10391                                                                         |                                         |
| R16HVL20             | 0.16105             | -0.17094             | 0.00408              | 0.02876                                                                          |                                         |
| R16HVL25             | 0.12061             | -0.22409             | 0.08247              | 0.02921                                                                          |                                         |
| R16HVL 35            | 0.13617             | -0.19749             | -0.03581             |                                                                                  |                                         |
| R16HVL40             | 0.13465             | -0.20397             | 0.02965              | -0.16958                                                                         |                                         |
| R16HVL45<br>R75HHL5  | 0.12974             | -0.22504             | -0.02923             | -0.13222                                                                         |                                         |
| R75HHL10             | 0.11095<br>0.12345  | 0.20377              | -0.09700<br>-0.15127 | 0.18611<br>0.25636                                                               |                                         |
| R75HHL15             | 0.15149             | 0.11058              | -0.13164             | 0.17515                                                                          |                                         |
| R75HHL20             | 0.15143             | 0.08489              | 0.13103              | 0.14065                                                                          |                                         |
| R75HHL25             | 0.13208             | -0.05061             | 0.12554              | 0.23546                                                                          |                                         |
| R75HHL 35            | 0.10263             | 0.00827              | 0.33573              | 0.00277                                                                          | 1 100                                   |
| R 75HHL 40           | 0-16664             | 0.06856              | 0.15776              | -0.09599                                                                         |                                         |
| R75HHL45             | 0.15511             | 0.08367              | 0.11096              | 0.14490                                                                          |                                         |
| R75HVL5              | 0.16618             | 0.05258              | 0.03689              | 0.22121                                                                          |                                         |
| R75HVL10             | 0.15396             | 0.14469              | -0.01124             | 0.00177                                                                          |                                         |
| R75HVL15             | 0.16334             | 0.05341              | -0.14588             | -0.08489                                                                         |                                         |
| R75HVL 20            | 0.16103             | 0.05970              | -0.16851             | -0.16072                                                                         | ٠                                       |
| R75HVL25             | 0-17087             | 0.01861              | -0.14188             | -0.08273                                                                         |                                         |
| R75HVL 35            | 0.14499             | 0.09559              | -0.13218             | -0.24630                                                                         |                                         |
| R75HVL40             | 0.14869             | 0.11407              | -0.10476             | -0.22684                                                                         |                                         |
| R75HVL 45<br>RHC     | 0.15850<br>-0.17424 | 0.14776              | -0.02525             | -0.14689                                                                         |                                         |
| RVC                  | -0.17532            | 0.10503<br>0.10287   | 0.00942<br>-0.02437  | 0.02031                                                                          | A web 2 years                           |
| RPRT5                | -0.08987            | 0.27826              | -0.00622             | 0.06862                                                                          |                                         |
|                      |                     | V~ E   VEU           | 770022               | 93 00 002                                                                        |                                         |

# FIG 33 GUYMON - MILO. PAR (FACTOR LX) - UNDIA BLE TRAJECTORIES a. PLOT OF FACTOR 1 WITH FACTOR 2



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | PLOT OF F                                                                           | ACTOR3 WITH                            | FACTOR4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| ・ デージMai から記憶May ・ Mildio ・ 神神神・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ie. podržijama jego - 13 sieprojejenia dia norodinamania z jegos a                  | EACTOR3.                               | 2 hit is havin nem t'attent northaus 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | gr. chai                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | A                                                                                   | C                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                         |
| т тарын эбишай (айындынды ай-ашы көлүмүнүн тектериндей карасы 3,300,000,000 дек. С. (20.000,000,000,000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | _ <del></del>                                                                       | FE<br>• 8                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ramanamini (1900) (1900) (1900) (1900) (1900) (1900) (1900) (1900) (1900) (1900) (1900) (1900) (1900) (1900) (1900)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ·新加州···································                 |
| ORIGINAL PA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ge is<br>Ality                                                                      | •7                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | • • • • • • • • • • • • • • • • • • •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                         |
| 200 F 1 10 10 10 10 10 10 10 10 10 10 10 10 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 4 (4)                                                                               | . 5                                    | der der Eller och i greder verster freger der Erspregreiche der 3 januar, 20. Jahr 6.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <del>nickinin suprime maja yang digayah</del> 19. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1. 1965 (1 | <b></b>                                                 |
| • • • • • • • • • • • • • • • • • • •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | (4) しょうかい 新知明 質に 中での時 といますで、ま 芝麻 34.4 音 3 。                                         | •4 S                                   | J.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | in <del>ternal</del> (EE EE EE value Herry 1999)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                         |
| en andere de la companya de la comp<br>La companya de la companya del la company                | garantin garan (f) — sar (sar sa ik-dadak), departupan tin<br>O,                    | P .25 I                                | T y                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | M ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | TO A CO A G                                                                         | YAHQ<br>I O<br>Z P. H                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | a ka yayee waa ka k                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | EACTOD.                                                 |
| 1.09 .8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1                                                                                   | X N G .1                               | . 21.03 .04, 03<br>K                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6 <u>7</u> 8 <u>9</u> 1.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | FAÇTUK4                                                 |
| ः (२०१७ मः) वरण्य वे त्रमः अनुष्ट १८ १८ २० । अस्तिः स्रोतं श्रीक्षेत्रः स्वरं अवस्थानस्य स्वरं प्रव                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | grides communicate an Administration and a service and independent respectively.    | M • 2                                  | ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | yr sees an week and the sees of the sees            |                                                         |
| and in it, it is the Manuel Company Commentation or a substantial or indicated by Australia (1994).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                     | -3                                     | · · · · · · · · · · · · · · · · · · ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u> </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | (1)秦5朝唐刘帝(11)《北海主簿》(第1)海路 京市                            |
| •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                     | . 4                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | • • • • • • • • • • • • • • • • • • •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                         |
| 30. 306. FF delica culture im Tray i <del>Specialo</del> 17.8 mento yapi <del>16 1 Mante Sonia</del> (cultura in construir in mento sonia in men |                                                                                     | • 5                                    | and the state of t | g. ** * 1917gg.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 朝   - 17.57 (人間名 3歳 300 30 30 40 49 8 52 m 男<br> <br> 東 |
| CO - NO MODERN STOCKHELL SAMELANDER SAMEL BANK WITH DE COMMENS AND                   | rrangi ta 2 da mangadan saminininin manakar )n a dami an ini angari anangangan tang |                                        | (Salandunasirfin area territorium mag. Inpunispusy (g 7 psystemania)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | a eelen t degest voo voor gegendermaanse oor. emandele                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | gypta i i person i person i                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                     | • 7                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                     | . 8                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                         |
| *  Name of the Control of the Contro                   |                                                                                     | . 9                                    | egyanetty gyelati ta. acaliya tantakahikin aning nemining og egye ra                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | e tige t <del>eristanggi i tan Jamas III. Milabilit</del> isan ibin 2 nammi 1500 - 1900 t                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1945 - Zalkon Harakon kajakanski                        |
| in the state of t                    |                                                                                     | <b>1</b>                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ***                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | •                                                       |
| LSM02 = A<br>LSM3045 = F<br>L13L25 = K                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | LSM25 =8<br>L13L5 =G<br>L13L35 =L                                                   | LSM59 =C<br>L13L10 =H<br>L13L40 =M     | LSM915 = C<br>L13L15 = I<br>L13L45 = N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | LSM1530 =Z<br>L13L20 =J<br>L16HHL5 =0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ing at a constant when the constant of                  |
| . L16HHL10=P<br>L16HHL40=U<br>L16HVL20=Z                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | L16HHL15=Q<br>L16HHL45=V<br>L16HVL25=A                                              | L16HHL2C=R<br>L16HVL5 =W<br>L16HVL35=B | L16HHL25=S<br>L16HVL10=X<br>L16HVL40=C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | L16HHL35=T<br>L16HVL15=Y<br>L16HVL45=C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                         |
| L15HVL2U=2<br>L75HHL5 = Z<br>L75HHL35=J<br>L75HVL15=0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | L 75HHL 10=F<br>L 75HHL 40=K<br>L 75HVL 20=P                                        | L75HHL15=G<br>L75HHL45=L<br>L75HVL25=Q | 175HHL20=H<br>175HVL5 =M<br>175HVL35=R                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | L75HHL25=I<br>L75HVL10=N<br>L75HVL40=S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ويبورنده (۱۰۰ آویش بشکنهٔ افتح اطبیطالیستان و وی و      |
| L75HVL45=T                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | LHC =U                                                                              | LVC =V                                 | LPLT5 =W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | C13HVE4U=3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | arian dalam di primangan pada gampangan.                |

| ***************************************                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | (        | TABLE 37                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                      | - MILO.<br>ED FACTOR | PAR (FA              | CTORLX)              | ORIGINAL<br>OF POOR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | FAGE IS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------------|----------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| · · · · · · · · · · · · · · · · · · ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | FACTORL              | FACTOR2              | FACTOR3              | FACTOR4              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | a        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      |                      |                      |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | P        | LSM02<br>LSM25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.25766<br>          | 0.07958              | 0.85395              | -0.36154             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          | L SM59                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -0.03337             | 0:18526<br>0.24521   | 0.93976              | -0.32778<br>-0.13614 | MATTER PROPERTY OF THE PERSON NAMED IN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | (実施事としても)後、4~前しか。                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | P        | LSM915                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.24619              | 0.05755              | 0.91084              | 0.03347              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          | LSM1530                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -0-44246             | _=0.10405            |                      |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | e nite side for Manager mage conscript - S. 1965 Appelo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | F        | LSM3045                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.28997              | 0.05697              | 0.86129              | 0.03211              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          | L13L5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.09145              | 0.95211              | -0.09853             | -0.22835             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | _        | L13L10<br>L13L15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.42398              | 0.83501              |                      | -0-06665             | · 12 miles de ferre de la Santida de la section de la sect | A STATE OF THE STA |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          | L13L20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.57300<br>0.84131   | 0.63539<br>0.35941   | -0.01100<br>0.09265  | 0.23619<br>0.20262   | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| il<br>No. 1 alikuwaliki kalikiwa na mana na po 1 m. na 1 managamuwa na mana na po 1 m. na 1 managamuwa na managamuwa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          | L13L25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.8882.7             | -0.20166             |                      | 0.28998              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <u> </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          | L13L35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.74536              | -0.00798             | 0.09270              | 0.62935              | 2 1 : 23-7-2-4-4-4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          | L 13L 40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.68107              | -0.01171             | 0.21393              | 0.64018              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| THE PROPERTY OF THE PROPERTY O |          | L13L45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                      | <u>-0.18896</u>      | 0.31669              | .0.66992             | THE PERSON NAMED IN COLUMN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | - <del>व्यक्तिक के</del> क्षण के राज्यक्त <b>क कार्यक्र</b> स्ट                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | _        | L16HHL5<br>L16HHL10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -0.49136             | 0.75345              | 0.22745              | -0.31433             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          | LIGHHL15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -0.20652<br>-0.42376 | 0.83746              | 0.21035<br>0.24401   | -0.21317<br>-0.09263 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | R        | L16HHL20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.60762              | 0.70747              | 0.29436              | 0.03982              | · <del>Cara a mala a maridi</del> manazara e e e<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          | L 1.6HHL 25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.73035              | 0.60305              | 0.21.806             | 0.04877              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| - and an a majorancja ujiljelemater te neprodejsja - a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          | L16HHL35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.77324              | 0.46469              | 0.26506              | 0.21870              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ט<br>ע   | L16HHL40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.74092              | 0.37714              |                      | 0.35953              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Ť        | 116HHL45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.81149              | 0.26969              | 0.22386              | 0.34896              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | • •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Name and Associated Street, St | -        | L16HVL5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.24596              | 0.12963              | -0.19692<br>-0.03950 | -0.61824<br>-0.20788 | ம் கேட் நான் படக்க                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          | L16HVL15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.90183              | 0.18434              | 0.12605              | -0.20778             | • .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Aireit beneránicaine a stáir a an seann s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          | LI6HVL20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0-93224              |                      | 0.05316              | -0.00408             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| . •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | _        | L16HVL 25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.94915              | 0.08692              | 0.15087              | -0.07156             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          | L16HVL35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.94611              | 0.05054              | 0.23479              | -0.03174             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          | L16HVL40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0-94706_             |                      |                      | 0.05839              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          | 116HVL45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.90990              | -0.14594             | 0.24912              | 0.04552              | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          | L 75HHL 5<br>L 75HHL 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.04127              | 0.96448              | 0.05784              | -0.01477<br>0.01723  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| The state of the s | 7        | L 75HHL 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.54092              | 0.79773              | 0.01572              | 0.14910              | ter i kongre i i i i i i i i i i i i i i i i i i i                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          | L75HHL20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.75107              | 0.60398              | 0.03840              | 0.13499              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| B. C. S. B. MITHELL M. No. 60 CHARLES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>]</b> | L75HHL25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.87895              | 0.38282              | .0.19431             | 0.15619              | de - angeα .gra -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | · · · · · · · · · · · · · · · · · · ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | નુ       | L75HHL35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.86227              | 0.17204              | 0.36222              | 0.17615              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | K        | L75HHL40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.81658              | -0.00500             | 0.45386              | -0.07227             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| (者) 事 者 前 : (関・ 駅) 人 : (27 巻 高 等等を発音できます。 ・・ また・・・                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          | L 75HHL 45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.41910              | 0.74399              | 0-61459<br>0-21586   | -0.21270<br>-0.06498 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          | L75HVL10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.80235              | 0.17505              | -0.07355             | -0.13016             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| ing and the second second section of the second sec | Ö        | L 75HVL-15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0-78009              | 0-50658              |                      |                      | managements man in Fareholder St. 3 fe                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | in the state of th |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | P        | L75HVL20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.86264              | 0.40935              | 0.07358              | 0.03785              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2        | L75HVL25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.85761              | 0.39582              | 0.13778              | 0.09952              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3.       | L 75HVL 35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0-86553              | 0-28707              |                      |                      | Acade, to acade à mission en                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | and the second second                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <del>y.</del>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -        | L75HVL40<br>L75HVL45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.83849              | 0.08668              | 0.38409              | 0.09631              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          | LHC-11 2 1-11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.66682<br>0.01075   | -0.10162<br>-0.52126 |                      | 0.26846<br>0.73801   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          | LVC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.03045              | -0.52748             | -0.28869             |                      | mo <del>nistración i prope</del> sso (c) (PAVIENT Septil E-e)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | t se en                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          | LPLT5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -0.29289             | 0.01043              | -0.32582             | 0.79712              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>養</b><br>有                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | •                    | •                    | TION MATRI           |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          | i i i i i i i i i i i i i i i i i i i                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      |                      | र −००० का का 🖷 🛚     |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          | · · · · · · · · · · · · · · · · · · ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u> </u>             | 2                    | 3                    | 4                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.86011              | 0.40229              | 0.29293              | 0.11210              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                      | 0.84967              |                      |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          | The second secon |                      |                      |                      |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

0.22893

0.25260

-0.85829

0.42010

0.44114

0.79178

0.12773

-0.36442

-206-

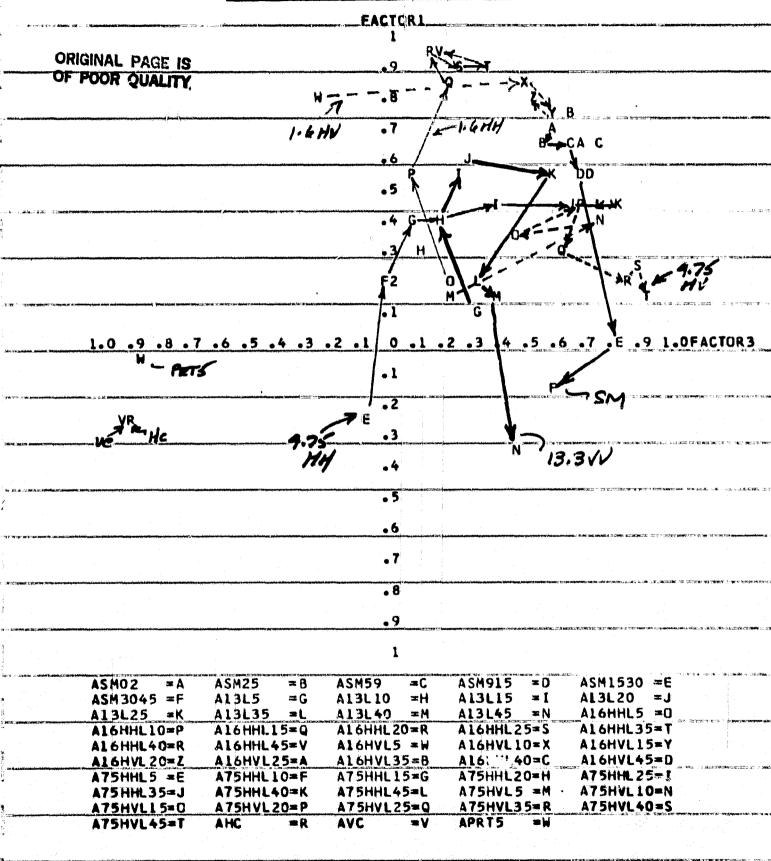
## YABLE 37 GUYMON, PAR (FACTORLX)

| THE SHALL BE REMOVED THE THREE THE SHALL S | b. <u>F</u>                   | ACTOR PATT                        | ERN                              |                                  | magnapunganannan en s en ev en ryegyen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-----------------------------------|----------------------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.5 patent trafficular delication and the state of the st | FACTOR L                      | FACTOR2                           | FACTOR3                          | FACTGR4                          | interstation of the trade their destructions were producted and the contract of the contract o |
| L SM02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.46325                       | 0.10140                           | -0.84130<br>-0.87648             | -0.00131                         | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| L SM59<br>L SM915                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.32996<br>0.50546            | 0.24454                           | -0.81477<br>-0.72238             | 0.36111                          | ***                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| LSM1530<br>LSM3045                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.58817<br>0.52822            | -0.28895<br>-0.08917              | -0.67499                         | 0.21102                          | 15. (本) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4. ) (4.  |
| L13L5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.40722<br>0.73337            | 0.87469<br>0.59087                | 0.21348                          | -0.01502<br>0.06138              | is in the second                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| L13L15<br>L13L20<br>. L13L25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.77171<br>0.91806            | 0.25303<br>-0.06057<br>-0.24121   | 0.33228<br>0.19961<br>0.33107    | 0.13408<br>-0.01645<br>-0.06446  | · · · · · · · · · · · · · · · · · · ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| L13L35<br>L13L40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.73558<br>0.71552            | -0.51456<br>-0.50463              | 0.29145                          | 0.26361<br>0.3456C               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| L13L45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -0.08812                      |                                   |                                  | 0.43001                          | and a second se  |
| L16HHL10<br>L16HHL15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.22585<br>0.76248            |                                   | -0.09281<br>-0.00444             | 0.22451<br>0.08629               | a.ea, co <b>do</b> co <b>do</b> con como como como como como como como                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| . L 16HHL 20<br>L 16HHL 25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.89792<br>0.94012            | 0.37285<br>0.24204                | 0.00449<br>0.06570               | 0.11247                          | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| L16HHL35<br>L16HHL40<br>L16HHL45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.95417<br>0.91766<br>0.91116 | 0.03.945.<br>-0.08271<br>-0.19071 | 0.07413<br>0.08068<br>0.12720    | 0.12011<br>0.23665<br>0.14275    | KOLOMA KANAT ARI MENTENYA PENYENYA NEW YANGAN Y                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| L16HVL5.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.44100<br>0.70547            | -0.13263<br>-0.07059              | 0.59713<br>0.07407               | 0.45393<br>-0.44002              | t these provinces and accompany to accompany to a 1937 Jo Confeder, as                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| L16HVL15<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0 = 86346<br>0 = 85774        |                                   | -0.04245<br>0.09487              | -0.39364<br>-0.29501             | Name sent determination deste, defended, addeduce de 2 total il sent la -refere de la requier                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| L16HVL25<br>L16HVL35<br>L16HVL40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.88751<br>0.89930<br>0.90708 | -0.21824<br>-0.26707<br>-0.32673  | -0.01993<br>-0.08310<br>-0.07016 | -0.31721<br>-0.25850<br>-0.18368 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| L16HVL45<br>L75HHL5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.80198<br>0.43878            | -0.45388<br>0.80988               | -0.11092<br>0.16991              | -0.22775<br>0.24120              | nie nach zu nieuwerden der                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| L75HHL10<br>L75HHL15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.63812                       | J.43627                           | 0.27522                          | 0.11157                          | a de comment of the second special spe |
| L75HHL20<br>L75HHL25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.91737<br>0.98443            | 0.21086<br>-0.03760               | 0.26194<br>0.10203               | 0.00314<br>-0.01831              | enthemonography generalisation behaviorable comment. Die Filder voor vol. von von von en                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| L75HHL35<br>L75HHL40<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.93671<br>0.82519<br>0.76961 | -0.22469<br>-0.26166<br>-0.38205  | -0.08366<br>-0.31827<br>-0.35912 | 0.02087<br>-0.16539<br>-0.16321  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| L75HVL5<br>L75HVL10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.58926<br>0.80485            | 0.52590<br>0.10663                | 0.38046<br>0.19405               | -0.10693<br>-0.33161             | A second section of the  |
| L75HVL15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0-92209<br>0-93244            | 0.11252<br>0.04249                | 0-17955<br>0-15744               | -0.00428<br>-0.15008             | y naman'ny makanina kaominina ara-manana manana ara-makana ara-mana ara-manana ara-manana ara-manana ara-manan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| L75HVL25<br>L75HVL35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.94839<br>                   | 0.00548<br>0.11402<br>-0.25747    | 0.12580<br>-0.02861<br>-0.16022  | -0.07586<br>-0.01879<br>-0.04605 | ortuna de frontes que establicado de la casa del del del del casa de la casa de la casa de la casa de la casa d                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| L 75HVL 40<br>L 75HVL 45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.73133<br>                   | -0.43656<br>-0.73839              | -0.31361<br>-0.43864             | 0.18566<br>0.33567               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| LVC<br>LPLT5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -0.19042<br>-0.25380          | -0.74024<br>-0.20767              | 0.44634<br>0.59627               | 0.30052<br>0.60363               | 4 The second                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

## TABLE 37 GUYMON-MILO. PAR (FACTOR LX)

| ORIGINAL PAGE IS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           | c                                 | C. EIGENVECTORS |          |                                                        | • • • • •                                                          |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------------------------------|-----------------|----------|--------------------------------------------------------|--------------------------------------------------------------------|--|--|
| OF POOR QUALI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>TY</b> | an ere anne manadamenta a sua Luc |                 |          | A Silver on annual visit of the national of the second | Transport the Colorada and St. 1                                   |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |                                   | _               |          | - ·                                                    |                                                                    |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | SMO2      | <b>0.0</b> 8938                   | 0.03485         | -0.34055 | -0.00078                                               |                                                                    |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | SM25      | 0.06485                           | 0.08558         | -0.35480 |                                                        | 2 1 2 gr v • •                                                     |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | SM59      | 0.06366                           | 0.08404         | -0.32982 | 0.21591                                                |                                                                    |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | SM915     | 0.09752                           | -0.02620        | -0.29242 | 0.19968                                                |                                                                    |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | SM1.530   | 0.11343                           | -0.09930        |          | 0.12617                                                | ora (1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(                       |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | SM3045    | 0.10191                           | -0.03065        | -0.27323 | 0.17697                                                |                                                                    |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 13L5      | 0.07857                           | 0.30061         | 0.08641  | -0.00898                                               |                                                                    |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 13L10     |                                   | 0.20307         | 0.03966  | .0.03670                                               | Land Company                                                       |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 13L15     | 0.14889                           | 0.08696         | 0.13451  | 0.08017                                                |                                                                    |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 13L20     | 0.17713                           | -0.02082        | 0.08080  | -0.00983                                               |                                                                    |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 13L25     |                                   | 0.08290         |          | -0.03854                                               | here e                                                             |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 13L35     | 0.14192                           |                 | 0.11798  | 0.15762                                                |                                                                    |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 13L40     | 0.13805                           | -0.17343        | 0.07412  | 0.20663                                                |                                                                    |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 13L45     | 0.10229                           | -0.21086        |          | 0.25711                                                | er Angelen der State Constitution                                  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 16HHL5    | -0.01700                          | 0.31778         | -0.09074 | 0.12918                                                | ŧ                                                                  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 16HHL10   | 0-04358                           | 0.31666         | -0.03757 | 0.13423                                                | •                                                                  |  |  |
| The real particular in the second sec | 16HHL15   | 0.14711                           | 0.20626         | -0.00180 | 0.05159                                                | render man manager partitions de terrange autonomonique de la con- |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 16HHL 20  | 0.17324                           | 0.12814         | 0.00182  | 0.06725                                                |                                                                    |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 16HHL25   | 0.18139                           |                 | 0.02659  | 0.00981                                                |                                                                    |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 16HHL35   | 0.18410                           | 0.01356         | 0.03001  | 0.07182                                                | adichidate - gal a cap, comme men de lap hay appear de for         |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 16HHL 40  | 0.17705                           | -0.02843        | 0.03266  | 0.14149                                                |                                                                    |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 16HHL 45  | 0.17580                           | -0-06554        | 0.05149  | 0.08535                                                |                                                                    |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 16HVL5    | 0.08509                           | 0.04558         |          | 0.27141                                                | mann a <del>againment</del> et agas está actes es                  |  |  |
| · ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 16HVL 10  | 0.13611                           | -0.02426        | 0.02978  | -0.26309                                               |                                                                    |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 16HVL15   | 0.16660                           | -0.02179        | -0.01719 | -0.23536                                               | •                                                                  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 16HVL 20  | 0.16549                           | -0.07719        | 0.03840  | -0.17639                                               | : 'Princip yypowoder;'manus Manus Sale deski, ufo zija, da, sinta  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 16HVL25   | 0-17124                           | -0.07500        | -0.00807 | -0.18966                                               |                                                                    |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 16HVL35   | 0.17351                           | -0.09179        | -0.03364 | -0.15456                                               | *                                                                  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 16HVL40   | 0.17501                           | -0.11229        | -0.02840 | -0.10982                                               | ection to a special or specimens, you come                         |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 16HVL45   | 0.15473                           | -0.15599        | -0.04490 | -0.13617                                               |                                                                    |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 75HHL5    | 0.08466                           | 0.27834         | 0.06878  | 0.14421                                                |                                                                    |  |  |
| Name and the same of the same and the same a | 75HHL10   | . 0.12312                         | 0.22279         | 0.11141  | 0.06671                                                |                                                                    |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 75HHL 15  | 0.15580                           | 0.14994         | 0.12306  | 0.07715                                                |                                                                    |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 75HHL 20  | 0.17700                           | 0.07247         | 0.10603  | 0.00188                                                | •                                                                  |  |  |
| · ····································                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 75HHL 25  | 0.18993                           | -0.01292        | 0.04130  | -0.01095                                               |                                                                    |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 75HHL35   | 0.18073                           | -0.07722        | -0.03387 | 0.01248                                                | F 2                                                                |  |  |
| ×                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 75HHL 40  | 0.15921                           | -0.08993        | -0.12883 | -0.09889                                               |                                                                    |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 75HHL 45  | 0.14849                           | -0.13130        | 0.14537  | 0.09758                                                | <u> </u>                                                           |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 75HVL 5   | 0.11369                           | 0.18074         | 0.15401  | -0.06393                                               | -                                                                  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 75HVL10   | 0.15529                           | 0.03665         | 0.07855  | -0.19827                                               |                                                                    |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 75HVL15   | 0.17791                           | 0.03867         | 0.07268  | -0.00255                                               |                                                                    |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 75HVL20   | 0.17990                           | 0.01460         | 0.06373  | -0.08973                                               |                                                                    |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 75HVL25   | 0.18298                           | 0.00188         | 0.05092  | -0.04536                                               |                                                                    |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 75HVL35   | 0.18327                           | -0.03919        | 0.01158  | -0.01123                                               | <del></del>                                                        |  |  |
| *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 75HVL 40  | 0.16966                           | -0.08849        | -0.06486 | -0.02754                                               |                                                                    |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 75HVL45   | 0.14110                           | -0.15003        | -0.12695 | 0.11101                                                |                                                                    |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | HC        | -0.03793                          | -0.25377        | 0.17756  | 0.20070                                                | ·                                                                  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | VC        | -0.03674                          | -0.25440        | 0.18068  | 0.17968                                                |                                                                    |  |  |
| Ł                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | PLT5      | -0.04897                          | -0.07137        | 0.24137  | 0.36091                                                |                                                                    |  |  |
| The straight of saidy and an experience of the said of |           |                                   | ·               |          |                                                        | <del></del>                                                        |  |  |

## FIG 34 GUYMON. PAF (FICTOR AX) - MARIABLE TRAJECTORIES A. PLOT OF FACTORI WITH FACTORS



# FIG34 GUYMON ALP (FACTOR BX) b. PLOT OF FACTOR2 WITH FACTOR4

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Marianta de la companione |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | FACT                                  | TORZ           | The state of the s | ener properties and a                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | . E. E. Millert,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ř                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ORIGINAL PAGE                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       | l<br>DGE<br>9  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | :                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | OF POOR QUAL                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |                | H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <del>  </del>                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | N .F                                  | P H<br>GL      | G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Talka olea disembiliki - <del>desadronin kisa adalah</del><br>P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <del>aga ing manggang panggangganggang pan</del> g                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | • 1                                   |                | <u> </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | . هم به سال جستنان مدینتهم                        | angangan dan kalang banan banan kalang dan kalang dan banan dan ba           | क्षेत्र । विकेशने का विकास व्यवस्था का का प्रकार विकास व                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| i,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ¥ <sup>*</sup>                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |                | J                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | \$                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | •                                     | 5              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| m da <del>herek kindi dan mendengan dalah din</del><br>L<br>U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | et i i indonen en                                                             | <del>ran majajamajā aja aras ju krāma arī sajajā najāja.</del>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | .4                                    | i L            | BE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | क्षं दक्षा रिक्षा                                 | akankaamaa nankakama na ma<br>T                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | e e grade e companya game o composições de ce                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| #<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |                | R KF<br>SC D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | J                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                | ¥                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | D<br>W •2                             | T<br>2 A<br>2T | K                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                   | M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | · · · · · · · · · · · · · · · · · · ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| endan aya da aya aya aya aya aya aya aya aya                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                | <del>Marinia. An estado e</del>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | • 1                                   | l B            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <del></del>                                       | <del>and a state of the state of th</del> | The second secon |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1.0 .9 .8 .7                                                                                                   | .4 .5 .4 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | . 2 1 6                               | Ćν,            | _                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | E 4                                               | .7 .8 .9 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 054CT004                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| . Na Milian de la managia de l | 400 07 00 07                                                                                                   | •0 • 5 • 7 • 6 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | X                                     |                | 2 .3 .4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | • 9 • 6                                           | ., ., ., ., 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -UFACTURA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | • 1                                   |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | · · · · · · · · · · · · · · · · · · ·                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | • 2                                   | <u>2U</u>      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <del></del>                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | and the state of t |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | · · · · · · · · · · · · · · · · · · · | <u> </u>       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | • <del>• • • • • • • • • • • • • • • • • • </del> | trolomenting trooping the property to pay and considerate special section of the            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | .4                                    | <b>k</b>       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                | Annale de de la lateria de la especia de la companie de la compani | . 5                                   | 5              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| · · · · · · · · · · · · · · · · · · ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | .6                                    | <b>.</b>       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | .7                                    | <b>;</b>       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                | ika ang kalibiya ka ang ang ang ang ang ang ang ang ang an                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | . 8                                   | 3              | <del></del>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | **********                                        | The state of the s           | de fan greke former mellemenne fenne sieden en mer gere fenne green fast in dest gegelse Johan de                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| i<br>i                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       | _              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| - Harling and the Association and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       | )              | <del>.</del>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | · · · · · · · · · · · · · · · · · · ·             | terrenging bestehn former attende published han selfen i Hander and med bis se                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | metric (ESSE Tillians account in human - whom the electronic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1                                     | L              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ASMO2 =A                                                                                                       | ASM25 =B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ASM59                                 | =C             | A\$M915                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | = D                                               | ASM1530 =E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | तः को के में विकितिकों के किए कार जानाम तम । <mark>के स्थान में कारोपन तम आर्था के पूर्व</mark><br>-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| **<br>9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ASM3045 =G                                                                                                     | A13L5 =G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | A13L10                                | ≐H             | A13L15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | = [                                               | A13L20 =J                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| ₹<br>\$<br>¥                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | A13L25 =K<br>A16HHL10=P                                                                                        | A13L35 =L<br>A16HHL15=Q                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | A13L40<br>A16HHL2                     |                | A13L45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                   | _A16HHL5_=0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | A16HHL40=U                                                                                                     | A16HHL45=U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Alchil 2                              |                | A16HHL2<br>A16HVL1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                   | A16HHL35=T<br>A16HVL15=Y                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | A16HVL20=Z                                                                                                     | AL6HVL25=A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | A16HVL3                               |                | AlehyLa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                   | _A16HVL45=D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | A75HHL5 =E                                                                                                     | A75HHL10=G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | A75HHL1                               |                | A75HHL2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                   | A75HHL25=I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Semmer project, a., post, b. (Sport to Collect, and prepare seems are insen-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | A75HHL35=J                                                                                                     | A75HHL40=K                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | A75HHL4                               | 5=L            | A75HVL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                   | A75HVL10=A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | A75HVL15=0                                                                                                     | A75HVL20=P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | A75HYL2                               |                | A75HYL3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                   | _A75HVL40=S.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | A75HVL45=T                                                                                                     | AHC =U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | AVC                                   | <b>=</b> U     | APRT5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | = W                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

|               |                       | <del></del>  |           | <del></del> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------|-----------------------|--------------|-----------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|               |                       | FACTOR 1     | FACTOR2   | FACTOR3     | FACTOR4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| A             | ASM02                 | 0.70801      | 0.33819   | 0.57985     | 0.19910                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|               | A SM 25               | 0.67437      | 0.42006   | 0.54455     | 0.26778                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|               | ASM59                 | 0.62557      | 0.30310   | 0.65249     | 0.29356                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ere enemen die omerse oorstalbensee dry de sêle :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|               | A SM915               | 0.54756      | 0.32268   | 0.67596     | 0.36753                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| O<br>E        | ASM1530               | -0.01461     |           |             | 0.33601                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|               | ASM3045               | -0.17142     | 0.75272   |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | karitar quan in managan ang pangang sa An                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|               |                       | 0.11701      | 0.92811   | 0.33223     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 7             | A13L10                | 0.31471      |           | 0.12841     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|               | A13L15                | 0.55159      |           |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | कः ॥ । विश्वविद्या <del>मानुस्तान । प्रोत्रकः चलकः स्वत्ये । वस्त्यान्तरः न</del> ः पुरु प्रकार्षः <sup>त</sup> ः ।                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| T             | A13L20                | 0.58150      | 0.62879   |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| *             | A13L25                | 0.56724      | 0.33546   | 0.59442     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|               | A13L35                | 0.18657      |           | 0.33118     | 0.14029                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | name of the constitution o |
| M             | A13L40                | 0.14105      | 0.70532   | 0.36881     | 0.33582                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>7</b> 3    | A13L45                | -0.32973     | 0.78151   | 0.43662     | -0.22074                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <u></u>       | A 16HHL 5             | 0.19441      | 0.94590   |             | 0.00468                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| ~             | A16HHL10              | 0.55569      | 0.82382   | 0.07433     | 0.01865                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| G             | A16HHL15              | 0.83938      | 0.42925   | 0.22673     | 0.23293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 12            |                       | 0.92698      | 0.21423   | 0.14386     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|               |                       | 0.87993      | 0.31162   |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| ,             | A16HHL35              | 0.92054      | 0.13862   | 0.34334     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 12            |                       | 0.96040      | 0.04688   | 0.13996     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Ŷ.            |                       | 0.94465      | 0.06738   |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| u)            |                       | 0.79104      |           |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| ×             |                       | 0.85631      | -0.05447  |             | managem to said with the said by the contract of the said of the s | etinanen a. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Ŷ             |                       | 0.75913      | 0.00348   |             | 0.12558                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <u> </u>      |                       |              |           |             | 0.06907                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| A             |                       |              | 0.22410   |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Ann angle on an form the formal processing the section of the sect |
| É             | A16HVL35              | 0.73736      | 0.09013   | 0.65967     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Ĉ             |                       | 0.66016      | 0.07286   |             | 0.06674                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| $\mathcal{L}$ |                       | 0.57415      | 0.23879   | 0.72899     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| £             | A75HHL5               | -0.23048     | 0.93279   | -0.08462    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| F             |                       | 0.17570      | 0.96007   |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 9             |                       | 0.37705      | 0.81557   | 0.08469     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| H             |                       | 0-40393      | 0.84349   | 0.17525     | 0.20871                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|               | A75HHL25              | 0.46983      | 0.37867   | 0.37532     | 0,65459                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| ប             | A75HHL35              | 0.43587      | 0.36554   | 0.64644     | 0.49023                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| K             | 475HHL 40             | 0.43582      | 0.27473   | 0.80144     | 0.27127                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|               | A75HHL45              | 0.43622      | 0.42048   | 0.76172     | 0.07759                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| M             | A75HVL5               | 0.16270      | 0.25309   | 0.22954     | 0.88163                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| •             | A75HVL10              | 0.41361      | 0.21148   | 0.75117     | 0.18001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| ,             | A75HVL 15             | 0.37416      | <u> </u>  | 0.44153     | 0.62376                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | معاملات ششامه «المعاملة معالية ويشيره بها المعاملة بها ويوارد والمعاملة والمعاملة والمعاملة المعاملة المعاملة                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| e e           | A75HVL 20             | 0.44363      | 0.3/739   | 0.67925     | 0.43843                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 4             | A75HVL25              | 0.28160      | 0.46723   | 0.61673     | 0.52079                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|               |                       | 0.19363      | 0.34375   | 0.85472     | 0231133                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| S             | A75HVL40              | 0.25267      | 0.15436   | 0.88852     | 0.30563                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 7             | A 75HVL 45            | 0.16275      | 0.22716   | 0,92066     | 0.18615                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <u> </u>      |                       | -0.25167     | -0.17664  | -0.92998    | 0.05343                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|               | AVC                   | -0.23532     | -0.20683  | -0.94205    | 0.04122                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| h             | ) APRT5               | -0.05196     | 0.19243   | -0.89667    | -0.08969                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|               | 2 At 1 4 at 14 (1994) | DOTUGCONAL T | AMCCOOMAT | TON MATORY  | manuscript de la chient de la c |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

#### ORTHOGONAL TRANSFORMATION MATRIX

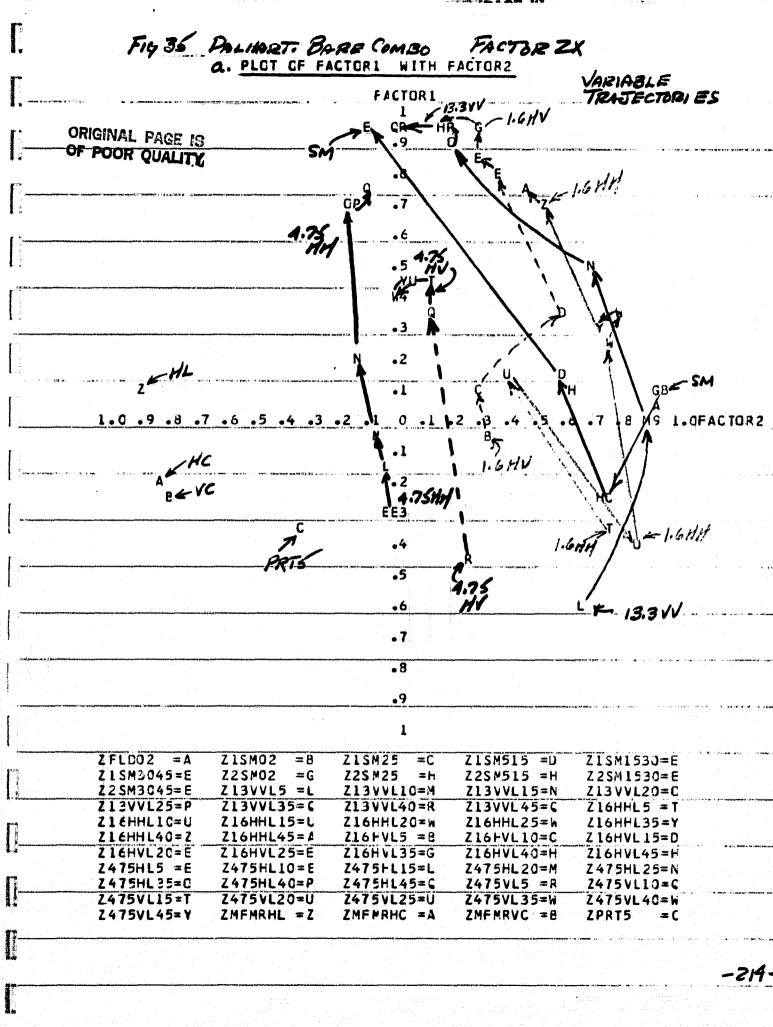
|   |          |          | <i>3</i> | 4_       |
|---|----------|----------|----------|----------|
| 1 | 0.57741  | 0.46945  | 0.61241  | 0.26678  |
| 2 | -0.50909 | 0.83091  | -0-20076 | 0.10059  |
| 3 | 0-63600  | 0.22188  | -0.73472 | -0.08038 |
| 4 | -0.05414 | -0.19996 | -0.21174 | 0.95512  |

# TABLE 38 GUYMON. ALF (FACTORAX)

|                                       |            | -        |          |          |          |                                       |                                                           |
|---------------------------------------|------------|----------|----------|----------|----------|---------------------------------------|-----------------------------------------------------------|
|                                       |            | FACTOR1  | FACTOR2  | FACTORS  | FACTOR4  | <b></b>                               |                                                           |
|                                       | A SMO2     | 0.97580  | -0.17581 | 0.08330  | -0.03857 |                                       |                                                           |
|                                       | ASM25      | 0.99151  | -0.07667 | 0.10048  | 0.01995  | 1                                     |                                                           |
|                                       | ASM59      | 0.98141  | -0.16808 | -0.03788 | 0.04775  | E ME THE NO NEW                       | - Company along the company of many majors at the text of |
|                                       | A\$M915    | 0.97966  | -0.10938 | -0.10634 | 0.11374  | 1                                     |                                                           |
|                                       | ASM1530    | 0.77130  | 0.22131  | -0.54031 | 0.06759  |                                       |                                                           |
|                                       | ASM3045    | 0.64625  | 0.60485  | -0.38589 | -0.16195 |                                       |                                                           |
|                                       | A13L5      | 0.72602  | 0.65218  | 0.03043  | -0.19316 |                                       |                                                           |
|                                       | A 13L10    | 0.67121  | 0.49444  | 0.27401  | -0.08477 | 1                                     |                                                           |
| •                                     | A13L15     | 0.87375  | 0.29604  | 0.30853  | -0.02871 |                                       | namen ar innamen ar de sant sinte d'ann                   |
|                                       | A13L20     | 0.88443  | 0.19301  | 0.26855  | 0.03181  |                                       |                                                           |
|                                       | A 13L25    | 0.96004  | -0.08753 | -0.03498 | 0.17372  |                                       |                                                           |
|                                       | A13L35     | 0.70951  | 0.49256  | 0.03493  | -0.10023 | <del></del>                           |                                                           |
|                                       | A13L40     | 0.72800  | 0.47399  | -0.05176 | 0.09398  |                                       |                                                           |
|                                       | A13L45     | 0.38499  | 0.70736  | -0.33936 | -0.44170 |                                       |                                                           |
| · · · · · · · · · · · · · · · · · · · | A16HHL5    | 0.68361  | 0.64613  | 0.18191  | -0.23878 | <del></del>                           |                                                           |
|                                       | A16HHL10   | 0.75810  | 0.38857  | 0.48009  | -0.19274 |                                       |                                                           |
|                                       | A 16HHL 15 | 0.88717  | -0.09274 | 0.44378  | 0.04319  |                                       |                                                           |
|                                       | A16HHL20   | 0.78494  | -0.29978 | 0.51300  | 0.09501  |                                       |                                                           |
|                                       | A16HHL25   | 0.87179  | -0.21332 | 0.42784  | 0.07661  |                                       |                                                           |
|                                       | A 16HHL 35 | 0.83369  | -0.41227 | 0.35588  | -0.05426 |                                       |                                                           |
| <del> </del>                          | A16HHL40   | 0.72530  | -0.45430 | 0.49939  | 0.13467  |                                       |                                                           |
|                                       | A16HHL45   | 0.72035  | -0.44394 | 0.47949  | 0.04152  |                                       |                                                           |
|                                       | A 16HVL 5  | 0. 27004 | -0.25418 | 0.75382  | -0.48552 |                                       |                                                           |
|                                       | A16HVL10   | 0.75001  | -0.59061 | 0.17325  | -0.22876 | <del></del>                           |                                                           |
|                                       | A16HVL15   | 0.84028  | -0.49119 | 0.03342  | -0.04869 |                                       |                                                           |
|                                       | A16HVL 20  | 0.88711  | -0.37950 | 0.16663  | -0.12148 |                                       |                                                           |
|                                       | A16HVL25   | 0.96049  | -0.27199 | -0.04122 | -0.04173 | <del></del>                           |                                                           |
|                                       | A16HVL35   | 0.89848  | -0.42297 | -0.00368 | -0.10302 |                                       |                                                           |
|                                       | A16HVL40   | 0.88845  | -0.41807 | -0.11553 | -0.14398 |                                       |                                                           |
|                                       | A16HVL45   | 0.86682  | -0.24900 | -0.11046 | -0.31642 | ····                                  | , <del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>         |
|                                       | A75HHL5    | 0.30244  | 0.92802  | 0.10765  | 0.02091  |                                       |                                                           |
|                                       | A75HHL 10  | 0.55960  | 0.71997  | 0.33382  | -0.12537 |                                       |                                                           |
|                                       | A 75HHL15  | 0.76350  | 0.51058  | 0.32507  | 0.19617  | · · · · · · · · · · · · · · · · · · · | and supplied Method, define hands required a distriction  |
|                                       | A75HHL20   | 0.79221  | 0.48104  | 0.29851  | -0.02830 |                                       |                                                           |
|                                       | A 75HHL 25 | 0.85353  | 0.06595  | 0.05446  | 0.44459  |                                       |                                                           |
|                                       | A 75HHL 35 | 0.94994  | 0.00137  | -0.15604 | 0.23465  |                                       |                                                           |
|                                       | A75HHL40   | 0.94379  | -0.12721 | -0.27251 | 0.01087  |                                       |                                                           |
|                                       | A75HHL45   | 0.93646  | -0.01781 | -0.19516 | 0.19487  |                                       |                                                           |
|                                       | A75HVL5    | 0.58853  | 0.17006  | -0.07988 | 0.73404  | - <del> </del>                        | ***************************************                   |
|                                       | A75HVL10   | 0.84615  | -0.16754 | -0.25639 | -0.05181 |                                       |                                                           |
|                                       | A75HVL15   | 0.88548  | 0.19537  | -0.02663 | 0.38293  |                                       |                                                           |
|                                       | A75HVL 20  | 0.96434  | -0.00794 | -0.16933 | 0.17626  |                                       |                                                           |
|                                       | A75HVL25   | 0.89856  | 0-17344  | -0.21222 | 0.25816  |                                       | + a <sub>2</sub>                                          |
|                                       | A75HVL35   | 0.87933  | 0.04708  | -0.45397 | 0.03719  |                                       |                                                           |
|                                       | A75HVL40   | 0-84403  | -0.14801 | -0.48243 | 0.05923  |                                       |                                                           |
|                                       | A75HVL 45  | 0.81410  | -0.06021 | -0.53748 | -0.07138 |                                       |                                                           |
|                                       | AHC        | -0.78352 | 0.17343  | 0.47973  | 0.29690  |                                       |                                                           |
|                                       | AVC        | -0.79889 | 0.14122  | 0.49328  | 0.29294  |                                       |                                                           |
|                                       | APRT5      | -0.51272 | 0.35734  | 0.67565  | 0.06853  |                                       |                                                           |
|                                       |            |          |          |          |          |                                       |                                                           |
|                                       |            |          |          |          |          |                                       |                                                           |

### C. EIGENVECTORS

|                 |                 | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2                   | 3                   | 4                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                     |                     |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                 | ASMO 2          | 0.17222                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -0.06617            | 0.03631             | -0.02582             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| •               | ASM25           | 0.17500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -0.02886            | 0.04380             | 0.01336              | 1 To The Section of t |
|                 | ASM59           | 0.17321                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -0.06326            | -0.01651            | 0.03197              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                 | ASM915          | 0.17291                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -0.04117            | -0.04635            | 0.07614              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                 | ASM1530         | 0.13613                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.08329             | -0.23552            | 0.04525              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                 | A \$M3.045      | 0.11406<br>0.12814                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.22765             | -0.16821<br>0.01326 | -0.10842<br>-0.12932 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                 | A13L5<br>A13L10 | 0.11846                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.24546<br>0.18609  | 0.11944             | -0.05675             | ;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                 | A13L15          | 0.15421                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.11142             | 0.13449             | -0.01922             | is according to a said. Professor all all and a said of the control of the contro |
|                 | A 13L 20        | 0.15610                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.07265             | 0.11706             | 0.02130              | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                 | A13L25          | 0.16944                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -0.03294            | -0.01525            | 0.11630              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                 | A13L35          | 0.12522                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.18538             | 0.01523             | -0.06710             | والمراجعة المساومة والمستوامة والمستحد والمستحدد والمستحدد والمستحدد والمستحدد والمستحدد والمستحدد والمستحدد                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                 | A13L40          | 0.12849                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.17840             | -0.02256            | 0.06292              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                 | A13L45          | 0.06795                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.26623             | -0.14793            | -0.29570             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                 | A 16HHL 5       | 0.12065                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.24318             | 0.07929             | -0.15985             | BACA - F MARCHENGIA TRANSPORTENDING REFERENCE TO STATEMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                 | A16HHL10        | 0.13380                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.14625             | 0.20927             | -0.12903             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                 | A16HHL15        | 0.15658                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -0.03491            | 0.19344             | 0.02891              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <del></del>     | A16HHL20        | 0.13854                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -0.11283            | 0.22362             | 0.06360              | · · · · · · · · · · · · · · · · · · ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                 | A 16HHL 25      | 0.15387                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -0.08029            | 0.18649             | 0.05129              | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                 | A16HHL35        | 0.14714                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -0.15517            | 0.15513             | -0.03632             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                 | A16HHL40        | 0.12801                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -0.17099            | 0.21768             | 0.09016              | CC2 TO 1 STANDARD REPORT AND A CONTRACT OF THE PROPERTY AND A STANDARD AND A STAN |
|                 | A 1 6HHL 45     | 0.12714                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -0.16708            | 0.20901             | 0.02780              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| ٠.              | AL6HVL5         | 0.04766                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -0.09566            | 0.32859             | -0.32504             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                 | A 16HVL 10      | 0.13237                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -0.22229            | 0.07552             | -0.15315             | CONTROLLE BY BURNESHOUSE AND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                 | A16HVL15        | 0.14830                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -0.18487            | 0.01457             | -0.03259             | * · · · · · · · · · · · · · · · · · · ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                 | A16HVL20        | 0.15657                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -0.14283            | 0.07263             | -0.08132             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| *********       | A 16HVL 25      | 0.16952                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -0.10237            | -0.01797            | -0.02794             | and the second s |
|                 | AL6HVL35        | 0.15858                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -0.15919            | -0.00160            | -0.06897             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                 | A16HVL40        | 0.15681                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -0.15735            | -0.05036            | -0.09639             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                 | A 16HVL 45      | 0.15299                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -0.09372            | -0.04815            | -0.21183             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                 | A75HHL5         | 0.05338                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.34928             | 0.04692             | 0.01400              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                 | A75HHL10        | 0.09877                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.27098             | 0.14551             | -0.08393             | to the company of the supplemental property and the company of the |
|                 | A 75HHL 15      | 0.13475                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.19217             | 0.14170             | 0.13133              | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                 | A75HHL20        | 0.13982                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.18105             | 0.13012             | -0.01894             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                 | A75HHL 25       | 0.15064                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.02482             | 0.02374             | 0.29763              | n (* 16 - 16 <del>17 - 18 18 18 18 18 18 18 18 18 18 18 18 18 </del>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                 | A 75HHL 35      | 0.16766                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.00051             | -0.06802            | 0.15709              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                 | A75HHL40        | 0.16657                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -0.04788            | -0.11878            | 0.00728              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| · <del>  </del> | A75HHL45        | 0.16528                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -0.00670            | -0.08507            | -0.13046             | n na nin nin nin nina na n                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                 | A75HVL5         | 0.10387                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.06401             | -0.03482            | 0.49141              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                 | A75HVL10        | 0.14934                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -0.06306            | -0.11176            | -0.03468             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                 | A75HVL15        | 0.15628                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.07353             | -0.01161            | 0.25636              | k (2 % - bhlaigh air, ispeann fac aitrofhagainn a mannaga gaire ain ann                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                 | A75HVL20        | 0.17020                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -0.00299            | -0.07381            | 0.11800              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                 | A 75HVL 25      | 0-15859                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.06528             | -0.09251            | 0.17283              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                 | A75HV135        | 0.15520                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.01772<br>-0.05571 | -0.19788            | 0.02490              | . Car care the care of the car |
|                 | A75HVL 40       | 0.14897                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -0.05571            | -0.21029            | 0.03965              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                 | A75HVL 45       | 0.14368<br>-0.13829                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.06527             | -0.23429<br>0.20911 | -0.04779<br>0.19876  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                 | AHC             | -0.14100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.05315             | 0.21502             | 0.19611              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                 | AVC<br>APRT5    | -0.09049                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.13449             | 0-29451             | 0.04588              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                 | MFNID           | -0603043                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0613777             | V4277JL             | V1V4200              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                 |                 | and the second s |                     |                     |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |



# FIG 35 DALHART . BARE COMBO LA PLOT OF FACTOR 3 WITH FACTOR 4

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | PEUT OF TA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | FACTOR3                                | ACTORY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1<br>XY9                               | OR<br>OF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | IIGINAL PAGE IS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | o y i+* <b>**</b> **                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | W UT<br>R •8                           | рунных по том на поставления по том на поставления по том на поставления по том на поставления по том на поста                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | andria gardinari indigate garding <del>andri di Palan</del> e è si e se e s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | e ge gang gang an                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| announce is the form of heat of delicing which a new distance partners from the proposed result.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <del>yelening yak engana yanak yara yara ka</del> ni birinini daninin nanero danin ha                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | .7 D                                   | ganinder spennig der start filmer in de spennigen van nei metro kie printsplotier in depositie                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <del>administrative (d. 1</del> 982-42), and the contract of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | n イフ gggan - Mysera ega ・・ かたい 北部 1996に発展さ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6_ <u>0</u> HQP                        | auch neise von Anna visco VIII de la presidente y von Anna VIII de Levry any 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | erry method distributed by the state of the             | THE ROOM SECURE SERVICE SERVIC |
| is all him the common through the section, and providing the common grain management and account of the common com | l anique que qui in a sais quanti qua bas qui describe de con l'estimate de con l'estimate de con l'estimate d                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | •5 C                                   | gan dia sirus imi kerresmont suliyah adal, aliansal ettär XIII telepa. 400°94                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ing sa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ライス・・ラス 初 ( 編集 ( 本電本 )) 記憶( ) 最                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | and the gaster of the temperature of the party of the party of the second of the secon | AG3_CT                                 | 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <mark>Companiancy State</mark> (State State Sta | enggayayan massar Arast VIII Samu                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | HEJ<br>N •2<br>RI                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>N</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | P ABB                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ACTOS!                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 1.0 .9 .8 .7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | .0 .7 .4 .5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | M A-1                                  | 2 .3 .4 .7 .6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | .7 .8 .9L1.0F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ACIUR4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Andrew VIII & Anthronous Medical Annual & Maria Medical Annual Annual Annual Annual Annual Annual Annual Annua                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <u></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 72<br>73                               | Ď                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | विभवेषके विभवेषके स्थापित व्यवस्था । स्थापित व्यवस्था । स्थापित व्यवस्था । स्थापित व्यवस्था । स्थापित व्यवस्था                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | r i r sunap dan je një nadrukir de (智 改称) gd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3                                      | C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | er - Yu. 45 yı yarat urmalar ildi yoğulu.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Wanter of the same | W4<br>U                                | an distribution of the second  | pptRE pp ppdm ppmC-CVQ-CVP こ den ド トイニュッ・ - 単立数5人                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ko, ak o svislanským knightin i mistoren                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | •5                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>47</b>                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| yya and a sayyan amel kasasa a kaga a ang a mana ang a an ang a an alipan a mana <sup>a m</sup> ana <sup>a m</sup> ana at an an amen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | •8                                     | is spirite digeocomposito de la compania del compania del compania de la compania del la compania de la compania del la compania de la compan |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | . <u>.9</u><br>1                       | usaniskus naginakipu annan indikind ayannanina mahi iliyahinindikkumyu eribi eri<br>:-<br>:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Pagade Transferration and a second se            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| ZFLD02 =A<br>Z1SM3045=B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Z1SMC2 = B<br>Z2SMO2 = J                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Z1SM25 =C<br>Z2SM25 =H                 | Z1SM515 =C<br>Z2SM515 =I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Z1SM1530=E<br>Z2SM1530=J                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Z 2 SM3045=J<br>Z13VVL25=P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Z13VVL5 = L<br>Z13VVL35= C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Z13VVL10=M<br>Z13VVL40=R               | Z13VVL15=N<br>Z13VVL45=S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Z13VVL20=C<br>Z16HHL5 =T                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | and the second second                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Z16HHL1C=U<br>Z16HHL40=Z<br>Z16HVL2C=B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Z16HHL15=U<br>Z16HHL45=A<br>Z16HVL25=B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Z16HHL20=W<br>Z16HVL5 =B<br>Z16HVL35=J | Z16HHL25=X<br>Z16HVL1C=C<br>Z16HVL40=H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Z16HHL35=Y<br>Z16HVL15=D<br>Z16HVL45=I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Z475HL5 = J<br>Z475HL35=C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Z475HL10=J<br>Z475HL40=P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Z475HL15=L<br>Z475HL45=C               | Z475HL20=M<br>Z475VL5 =R                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Z475HL25=N<br>Z475VL10=S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Z475VL15=T<br>Z475VL45=Y                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Z475VL20=U<br>ZMFMRHL =Z                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Z475VL25=U<br>ZMFMRHC =A               | Z475VL35=W<br>ZMFMRVC =B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Z475VL40=X<br>ZPRT5 =C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

## TABLE 39 DALHART. BARE COMBO (FACTORZX)

| ORIGINAL PAGE IS       | A . ROTAT | ED FACTOR           | PATTERN  |                     |                                                                                                                |
|------------------------|-----------|---------------------|----------|---------------------|----------------------------------------------------------------------------------------------------------------|
| OF POOR QUALITY        | FACTOR1   | FACTOR2             | FACTOR3  | FACTOR 4            |                                                                                                                |
| ZFLD02                 | 0.07031   | 0.53329             | 0.29457  | -C.05513            |                                                                                                                |
| B ZISMC2               | 0.11259   | 0.93907             | 0.26163  | -0.05253            |                                                                                                                |
| C ZISM25               | -0.24319  | 0.76300             | 0.52202  | C.09331             |                                                                                                                |
| 2 Z 1 S M 5 1 5        | C.15183   | 0.59349             | 0.68700  | 0.10366             |                                                                                                                |
| 6 ZISM1530             | 0.93851   | -0.10523            | 0.26677  | -C.03731            |                                                                                                                |
| E 215M3045             | 0.94869   | -0.11254            | C.25662  | -0.03910            |                                                                                                                |
| Z25M02                 | 0.08528   | 0.91963             | 0.29245  | -C.01866            |                                                                                                                |
| Z2SM25                 | -0.24376  | 0.71560             | 0.54784  | 0.11890             |                                                                                                                |
| Z2SM515                | 0.12103   | 0.61051             | 0.66486  | 0.12173             |                                                                                                                |
| Z 2 SM 1 53 C          | 0.93882   | -0.11076            | 0.25885  | -0.01771            |                                                                                                                |
| Z2SM3045               | 0.94273   | -0.11888            | 0.27082  | -0.04684            |                                                                                                                |
| ∠ Z13VVL5              | -0.61072  | 0.66657             | -0.17141 | -0.31467            |                                                                                                                |
| M Z13VVL10             | -0.00853  | 0.87113             | -0.03617 | -C.22652            |                                                                                                                |
| N Z13VVL15             | 0.48717   | 0.66863             | 0.22134  | _0.13091            | \$ v . W -                                                                                                     |
| 0 Z13VVL20             | 0.90639   |                     | 0.07060  | -C.17002            |                                                                                                                |
| P 213VVL25             | 0.94009   | 0.16838             |          | -0.18087            |                                                                                                                |
| @ Z13VVL35             | 0.96767   | -0.02035            |          | -0.11796            | ar en Proposition Sales Sa |
| R 213VVL40             | 0.96126   | 0.02055             |          | -0-04363            | t :                                                                                                            |
| Q Z13VVL45             | 0.96427   | -0.C1454            | 0.07023  | -0.09975            |                                                                                                                |
| 7 Z16HHL5              | -0.32939  | 0.76536             | 0.28872  | 0.13144             | ·                                                                                                              |
| V Z16HHL10             | 0.15639   | 0.39982             | -0.44257 | -C. C4595           |                                                                                                                |
| U 216HHL15             | -0.39485  | 0.86053             | 0.02460  | 0.07988             |                                                                                                                |
| W Z16HHL20             | 0.25632   | 0.75692             | -0.42484 | -0.01694            | · Brak + M. P.Comme · · · · · · · · · · · · · · · · · ·                                                        |
| ₩ Z16HHL25             | 0.34710   | 0.76824             | -0.25343 | -0.01574            |                                                                                                                |
| Y ZIGHHL35             | C-29C94   | 0.71073             | -0.25296 | -0.06645            |                                                                                                                |
| Z ZIGHHL40             | 0.72027   | 0.53328             | -0.16450 | 0.07779             | · 19 · · · · · · · · · · · · · · · · · ·                                                                       |
| A 216HHL45             | 0.7261C   | C-44460             | -0.08582 | -0.65753            |                                                                                                                |
| B 216HVL5              | -0.02915  |                     | 0.29384  | 0.42250             |                                                                                                                |
| C Z16HVL10             | 0.11167   | 0.27526             |          | 0.46536             | z¥ z z . 3 <b>a</b> po + <b>a</b> nd¥-2≤                                                                       |
| 2 Z16HVL15             | 0,35481   | 0.58467             | -0.24669 |                     |                                                                                                                |
| E Z16HVL20             | 0.80299   | 0.35842             | 0.10476  | 0.02477             |                                                                                                                |
| E Z16HVL25             | 0.87488   | 0.27212             |          | -C.21204            |                                                                                                                |
| G 216HVL35             | 0.93274   | C.26794             | 0.22664  | -0.00810            |                                                                                                                |
| #, Z16HVL40            | 0.93729   | 0.14458             | 0.23112  | -0.09033            |                                                                                                                |
| 216HVL45               | 0.94959   | 0.16158             |          |                     |                                                                                                                |
| Z475+L5                | -0.31251  | -0.04886            | -0.12106 | C.87068             |                                                                                                                |
| ₹ Z475HL10             | -0.31418  | -0.C2617            | -0.12121 | 0.88764             |                                                                                                                |
| £ 2475FL15             | -0.16450  | -0.05235            | -0.01453 | 0.94479             | y in a second of                                                                                               |
| M Z475HL20             | -0.06318  | -C.C8213            | 0.09873  | 0.96453             |                                                                                                                |
| N 2475HL25             | 0.20566   | -0.14416            | 0.26523  | C. 91412            | •                                                                                                              |
| 0 2475HL35<br>2475HL40 | 0.69904   | -0.17759            | 0.58127  | C.12035             | وراج كالمام سائيس سيريو                                                                                        |
| 2475HL40<br>2475HL45   | 0.71775   | -0.14281            | 0.55991  | 0.18437             |                                                                                                                |
| 2 2475VL5              | -0.43215  | -0.13194<br>C.26019 | 0.55348  | 0.16315<br>-0.11368 | <del></del>                                                                                                    |
| <b>Q</b> 2475VL10      | 0.34670   | 0.13142             | 0.73352  | 0.04028             | and servery of the servery of                                                                                  |
| 7 2475VL15             | 0.43479   | 0.13142             | 0.84655  | 0.00395             |                                                                                                                |
| 2475VL15               | 0.45743   | 0.04379             | 0.85704  | -0.02480            |                                                                                                                |
| V Z475VL25             | 0.43511   | 0.05292             | 0.86667  | -0.00368            |                                                                                                                |
| " W 2475VL35           | 0.40781   | -0.01522            | 0.87423  | -0.10975            |                                                                                                                |
| ₩ Z475VL40             | 0.41445   | -0.60142            | 0.88583  | -0.05179            |                                                                                                                |
| #                      | 7074777   | 7177176             |          | 90 4 J L T 7        |                                                                                                                |

## TABLE 39 DALHART. BARE COMBO (FACTOR ZX)-CONT.-

### 4. RCTATED FACTOR PATTERN

|   |          | EACTOR1  | FACTOR 2 | FACTOR3  | . FACTOR4 |
|---|----------|----------|----------|----------|-----------|
| > | Z475VL45 | 0.43820  | 0.00767  | 0.88267  | -G.03022  |
|   | ZMEMRHL  | 0.09767  |          | -0.17966 | -0.02057  |
|   | ZMFMRHC  | -C.17958 | -0.83804 | 0.12351  | -0.06193  |
|   | ZHFHRVC  | -0.25249 | -0.83103 | 0.10429  | -0.01936  |
|   | ZPRT5    | -0.32731 | -0.25383 | 0.31596  | 0-07935   |

### ORTHOGONAL TRANSFORMATION MATRIX

| • | 1        | 2        | 3        | 4        |
|---|----------|----------|----------|----------|
| 1 | 0.85537  | C.30532  | 0.41488  | -0.05465 |
| 2 | -0.32431 | 0.94529  | -0.02357 | 0.02633  |
| 3 | -0.37482 | -C.11318 | 0.88789  | 0.24157  |
| 4 | 0.15058  | 0.01976  | -0.19741 | 0.96849  |

#### VARIANCE EXPLAINED BY EACH FACTOR

FACTOR1 FACTOR2 FACTOR3 FACTOR4 18.087463 13.239534 10.093186 5.338351

### ORIGINAL PAGE IS OF POOR QUALITY

### FACTOR PATTERN

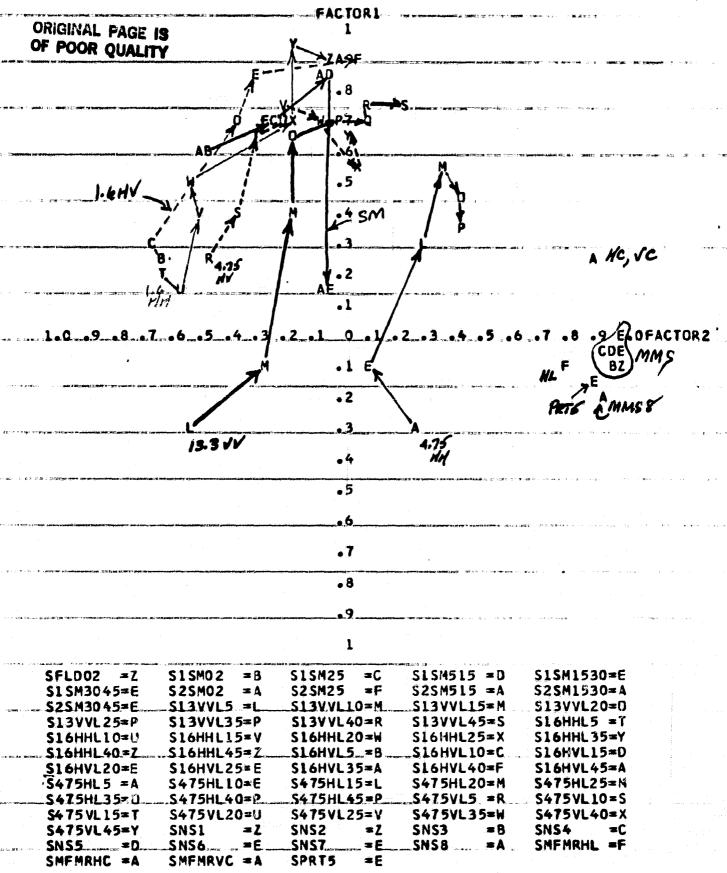
ORIGINAL PAGE IS OF POOR QUALITY

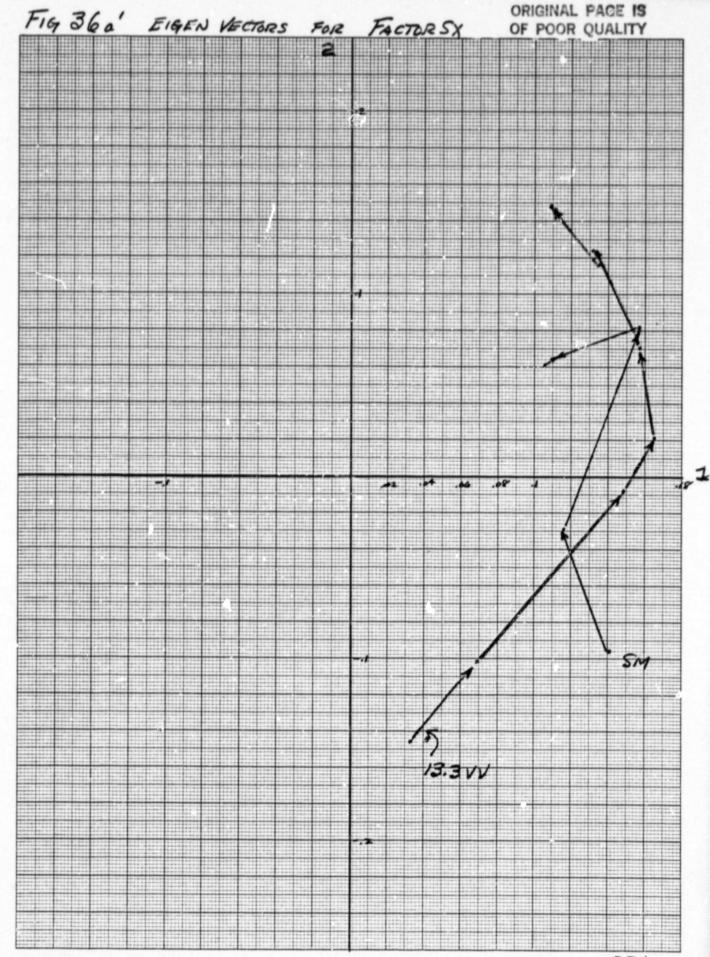
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -                  |                      |                      |                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------------|----------------------|---------------------|
| Nick & Linear and a second control of the se | FACTORL            | FACTCR2              | FACTOR3              | EACTOR4             |
| ZFLD02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.47032            | 0.85104              | 0.11624              | -0.08251            |
| Z1SMO2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.49445            | 0.64363              | 0.07112              | -0.06701            |
| Z1SM25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.23642            | 0.79028              | 0.49083              | -0.03422            |
| Z 15M5 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.59043            | 0.49832              | C.51094              | -0.00065            |
| Z1SM1530                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.88337            | <u>-0.41110</u>      | <u>-0.11201</u>      | 0.05044             |
| Z1SM3045                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.88573            | -0.42113             | -0.12444             | C. C5210            |
| Z2SM02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.47609            | 0.83428              | 0.11911              | -0.04479            |
| Z 2 SM 2 5<br>Z 2 SM 5 1 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.23C77<br>0.55912 | 0.74572              | 0.52552<br>0.50526   | 0.01557             |
| Z 2 SM 1 53 O                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | C-87758            | -0.41573             | -C.11380             | C. 07092            |
| Z25M3045                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.88501            | -0.42573             | -0.11075             | 0.04078             |
| Z13VVL5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -0.37280           | 0.82392              | -0.07474             | -0.34971            |
| Z13VVL10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.25605            | 0.82112              | -0.18224             | -0.19632            |
| Z13VVL15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.71984            | 0.46539              | -0.09338             | -C.08391            |
| Z13VVL20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.86684            | -0.13614             | -0.33775             | -0.03869            |
| Z13VVL25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.90541            | -0.15274             | -C.32956             | -0.04931            |
| Z13VVL35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.84911            | 0.33736              | 0.34361_             | 0.02100             |
| Z 13VVL40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.89560            | -0.29714             | -0.23470             | C.07211             |
| Z13VVL45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.85496            | -0.33075             | -0.32153             | 0.03444             |
| Z16HHL5Z16HFL10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.07474            | 0.33645              | 0.32494<br>0.50792   | 0.03583<br>0.07431  |
| Z16HHL15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>-0.</b> 06916   | 0.54302              | 0.09174              | 0.03005             |
| Z16HFL20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.27502            | 0.64195              | -0.56305             | C. 12101            |
| Z 16HHL25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.42717            | 0.61920              | -0.44587             | 0.10223             |
| Z16HFL35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.36455            | 0.58171              | -0.43015             | 0.04343             |
| Z 16HHL40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.70642            | 0.27644              | -0.45760             | 0.22680             |
| Z16HFL45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.72437            | 0.18531              | -0.41257             | C. C7934            |
| Z16HVL5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | C-17157            | 0.31611              | 0.33767              | 0.35311             |
| ZIEHVLIO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.00720            | 0.24458              | -0.27504             | 0.54286             |
| Z16HVL15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.35446            | 0.45557              | -0.30681             | 0.56027             |
| Z16HVL20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.83840            | 0.07658              | -0.24254             | C.13130             |
| Z16HVL25<br>Z16HVL35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.83695<br>0.97412 | 0.03174<br>-0.05477  | -0.42293<br>-0.18C66 | -0.06536<br>0.09315 |
| Z16HVL40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.94670            | -0.17513             | -0.18429             | 0.01088             |
| Z16HVL45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.93353            | -0.15984             | -0.22653             | C.C9C15             |
| 2475HL5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -0.38004           | 0.C8094              | 0.22550              | C.81912             |
| Z475HL10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -0.37553           | 0.10338              | 0.22753              | 0.83577             |
| Z475HL15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -0.21435           | 0.02908              | 0.28291              | 0.89208             |
| Z475HL20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -0.09C87           | -0.C3408             | 0.35364              | 0.90350             |
| Z475HL25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.19198            | -0.18515             | 0.39555              | 0.86107             |
| Z475HL35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.77830            | -0.40510             | 0.30326              | 0.10355             |
| Z475HL40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.79256            | -0.37611<br>-0.37028 | 0.28882              | 0.17328             |
| Z475FL45<br>Z475VL5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.80504<br>0.04480 | 0.36443              | C.27207<br>O.80870   | C.15610<br>-0.32648 |
| Z475VL10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.63881            | -0.C0443             | 0.51619              | -0.65100            |
| Z475VL15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.75578            | -0.05908             | 0.57745              | -0.09570            |
| Z475VL20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.76157            | -0.12780             | C.57855              | -C.12346            |
| Z475VL25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | C.74811            | -0.11160             | 0.59954              | -0.10809            |
| Z475VL35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.71288            | -0.17014             | 0.59857              | -C.21777            |
| Z475VL40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.72442            | -0.15799             | 0.61883              | -0.16265            |
| Z475VL45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.74502            | -0.15646             | 0.61129              | -C.13738            |
| ZMFMRHL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -C.27331           | -0.90551             | -0.09602             | 0.01191             |
| ZMFMRHC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -0.35485           | -0.73850             | 0.25687              | -C.12796            |
| ZMFMRVC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -0.42537           | -0.70665             | 0.27662              | -0.09377            |
| ZPRT5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -0.26125           | -0.23368             | C.46244              | -C. C4180           |

# TABLE 39 DALHART. BARE COMBO FACTOR 2X C. EIGENVECTORS ORIGINAL PAGE IS

OF POOR QUALITY 2 3 ZFLDC2 0 - 10202 0.24087 0.04135 -0.03646 Z1SM02 0.10726 0.23877 0.02530 -0.02961 Z15M25 0.05129 0.22367 C.17462 -0.01512 Z1SM515 0.12808 0.14104 0.18177 -0.00029 Z15M1530 0.19163 -0.11635-0.03585 C. 02228 21SM3045 0.19214 -0.11919 -0.04427 0.02302 0.23612 **225M02** 0.10328 0.04237 -C.01979 Z2SM25 0.05006 .0.21106 0.18696 -0.00688 **Z2SM515** 0.12129 0.00748 0.14870 0.17975 Z2SM1530 0.19037 -0.11766 -0.04049 0.03134 \_0.03940 Z2SM3045 0.19198 -0.12049 0.01802 Z13VVL5 -0.08087 0.23319 -0.02659 -0.15450 **Z13VVL10** 0.05554 0.23240 -0.06483 -0.08674 Z13VVL15 0.15615 0.13172 -0.03322 -0.037*0*7 213VVL20 0.18804 -0.C3853 -J.12C16 **~**0.01709 Z13VVL25 0.19641 -0.04323 -0.11724 -0.02178 Z13VVL35 0.18420 -0.09548 -0.12224 0.00928 Z13VVL40 0.19428 -0.08410 -0.08350 0.03186 213VVL45 0.18546 -0.09361 -C.11439 0.01522 Z16HHL5 0.01400 0.23405 0.11560 0.01583 Z16HFL10 0.09522 0.01621 -0.18070 0.03283 -0-01500 216HHL15 0.26690 0.03264 0.01328 -C.20031 Z16HHL20 0.05966 0.18169 0.05347 **Z16HHL25** 0.09267 0.17525 -0.15862 0.04517 **Z16HHL35** 0.07908 -C.15303 C. 16464 0.01919 **Z16HHL40** 0.15324 0.C7824 -0.16280 0.10020 Z16HHL45 0.15714 0.05245 -0.14678 0.03505 Z16HVL5 0.03722 0.08947 0.12013 C.15601 -C.09785 Z16HVL10 0.00156 O.C6922 0.23984 **Z16HVL15** 0.07689 0.12894 -0.10915 0.24754 Z16HVL20 0.C2167 C. 18187 -0.08629 0.05801 -0.15046 216HVL25 0.18156 -0.C0898 -0.02888 Z16HVL35 0.21131 -0.C155C -0.06427 0.04116 **Z16HVL40** 0.20537 -0.04956 -0.06556 0.00481 Z16HVL45 C.2C251 -0.04524 -0.08130 0.03983 Z475+L5 -0.08244 0.02291 0.08023 C.36190 Z475HL10 -0.08146 0.02926 0.08095 0.36925 Z475FL15 -0.04650 0.00823 C. 39413 0.10065 Z475HL20 -0.01971 -0.00964 0.12581 0.39918 Z475HL25 -0.05240 0.04165 0.14072 C. 38043 2475HL35 0.16883 -0.114650.10789 0.04575 Z475hL40 0.17193 -0.1C645 0.10275 C. 07656 0.06896 Z475HL45 0.17464 -0.1C480 0.09679 0.10314 Z475VL5 0.00972 C.28770 -C.14424 Z475 VL1 0 0.13858 -0.0C125 0.18364 -0.02253 2475VL15 0.16395 -0.C1672 0.20543 -0.04228 <u> 2475 VL20</u> 0.16520 -0.036170.20583 -0.05455 Z475VL25 0.16229 -0.C3159 0.21329 -0.04776 0.15464 Z475VL35 -0.04815 0.21295 -0.09621 Z475VL40 0.15715 -0.C4472 0.22015 -C.07186 2475VL45 0.16162 -0.C4428 0.21747 -0.06070 0.00526 ZMFMRHL -0.05929 -0.25628 -0.03416 ZMFMRHC -0.07698 -0.20901 0.09138 -0.05653 ZMFMRVC -6.09227 -0.2C000 0.09841 -0.C4143 ~0.05667 ZPRT5 -C.C6614 0.16452 -0.01847

# FIG 36 DALHART: STUB-(FACTORSK) - VARIABLE a. PLOT OF FACTORS WITH FACTORS TRAJECTORIES





# DALHART, STUB (FACTOR SX)

& PLUT OF FACTORS WITH FACTOR4 EACTOR3... 1 ORIGINAL PAGE IS OF POOR QUALITY . 8 Q N RX R D S 0.20 -1EY F ZB -3 -4 -5 -6 -7 -8 -9 1-0FACTOR4 H GE E G .1 EG .2 H • 5 . 7 .8 1 SFLD02 =E \$15M02 **=** B S1SM25 = Z S1SM515 = DS1SM1530=B S1SM3045=F S2SM02 =G S2SM25 =H S2SM515 = GS2SM1530=E \$2\$M3Q45=E S1.34VL5\_=L 51-344F10=W \$13VVL15=N .... \$13VVL20=0 S1 3VVL 25=P S13VVL35=Q S13VVL40=R \$13VVL45=\$ S16HHL5 =T S16HHL10=U S16HHL15=V SIGHHL20=V \$16HHL25=X S16HHL35=Y

S16HHL 40=Z S16HHL45=E-\$16HVL5 = 8 S16HVL10=Z .... S16HVL15=D S16HVL 20=B S16HVL25=F S16HVL35=G S16HVL40=H S16HVL45=G S475HL5 =E S475HL10=E S475HL15=L S475HL20=M S475HL25=N S475 VL 10=S S475HL35=0 S475HL40=P S475HL45=Q S475VL5 -- R. S475VL 15=T S475VL20=U \$475 VL25=V S475VL35=V S475VL40=X S475VL45=Y SNS1 =2 SNS2 **≇E** SNS3 =B SNS4 =Z SNS5----D SNS6-.**=**B SNS7-=F SMFMRHL =H SMFMRHC =G SMFMRVC =E =E SPRT5

### A. ROTATED FACTOR PATTERN

| ### SFLD02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                        | and Survival Survival Annual Survival S | FACTORL  | FACTOR2    | - FACTOR3 | *FACTOR4 | स्तर - भूमकारक शक                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------|-----------|----------|---------------------------------------|
| C \$15M25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |            |           |          |                                       |
| SISM515                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |            |           |          | y y                                   |
| ## S1SM1530                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |            |           |          |                                       |
| ## S1SM3045                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |            |           |          |                                       |
| ## \$25M02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |            |           |          | t ##1 100 34#####                     |
| ## \$2\$M25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | _                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |            |           |          |                                       |
| ## S2SM515                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |            |           |          |                                       |
| # S2SM1530                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | •        |            |           |          |                                       |
| E S2SM30.45         0.13308 -0.06323         0.91181         0.02455           4 S13VVL5         -0.31194 -0.53431         0.30943         0.34038           M S13VVL10         -0.11719 -0.27762         0.46742         0.76947           M S13VVL15         0.41345 -0.18180         0.58556         0.54899           O S13VVL20         0.63949 -0.17524         0.44234 -0.34676         0.20206           P S13VVL25         0.69255 -0.09941 -0.39955 -0.17517         0.17517           \$ S13VVL35         0.69255 -0.09941 -0.39955 -0.17517         0.13954 -0.17517           \$ S13VVL45 -0.73614 -0.22771 -0.22466 -0.23912 -0.13954         0.33911 -0.13954 -0.13954 -0.13954 -0.13954 -0.13954 -0.13954 -0.2456 -0.23912 -0.13954 -0.2456 -0.23912 -0.59359 -0.26251 -0.59359 -0.26251 -0.59359 -0.26251 -0.59359 -0.26251 -0.59359 -0.26251 -0.59359 -0.26251 -0.59359 -0.26251 -0.59359 -0.26251 -0.59359 -0.26251 -0.59359 -0.26251 -0.59359 -0.26251 -0.59359 -0.26251 -0.59359 -0.26251 -0.59359 -0.26251 -0.59359 -0.26251 -0.59359 -0.26251 -0.59359 -0.26251 -0.59359 -0.26251 -0.59359 -0.26251 -0.59359 -0.26251 -0.59359 -0.26251 -0.59359 -0.26251 -0.59359 -0.26251 -0.59359 -0.26251 -0.59359 -0.26251 -0.59359 -0.26251 -0.59359 -0.26251 -0.59359 -0.26251 -0.59359 -0.26251 -0.59359 -0.26251 -0.59359 -0.26251 -0.59359 -0.26251 -0.59359 -0.26251 -0.59359 -0.26251 -0.59359 -0.26251 -0.59359 -0.26251 -0.59359 -0.26251 -0.59359 -0.26251 -0.59359 -0.26251 -0.59359 -0.26251 -0.26267 -0.26260 -0.25267 -0.26260 -0.25267 -0.26260 -0.25267 -0.26260 -0.25267 -0.26260 -0.25267 -0.26260 -0.25267 -0.26260 -0.25267 -0.26260 -0.25267 -0.26260 -0.26260 -0.26260 -0.26260 -0.26260 -0.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | • -                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |            |           |          |                                       |
| ## S13VVL5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |            |           |          |                                       |
| M S13VVL10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |            |           |          |                                       |
| ## \$13vvl15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 4                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |            |           |          |                                       |
| S13VVL20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | - •                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |            |           |          |                                       |
| S13VVL25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |            |           |          |                                       |
| ₹         S13VVL40         0.69255         0.09941         0.39955         -0.17517           ₹         S13VVL40         0.73627         0.07936         0.33911         -0.13954           ₹         S13VVL45         0.73614         0.22771         0.22466         -0.23912           ₹         S16HHL5         0.20606         -0.63585         0.39143         0.49364           ₺         S16HHL10         0.16186         -0.59375         0.26251         0.59359           ₺         S16HHL15         0.40969         -0.5385         0.20058         0.40900           ₺         S16HHL20         0.52474         -0.55385         0.20058         0.40900           Ў         S16HHL25         0.68245         -0.19927         0.15413         0.29050           Ў         S16HHL35         0.92634         -0.18413         0.12076         0.08592           ∑         S16HHL45         0.88377         -0.05574         0.28906         0.01084           ∑         S16HVL5         0.28246         -0.64219         0.42993         0.16055           ∑         S16HVL15         0.69372         -0.39092         0.35374         0.15610           ∑         S16HVL15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |            |           |          |                                       |
| S       S13VVL40       0.73627       0.07936       0.33911       -0.13954         S       S13VVL45       0.73614       0.22771       0.22466       -0.23912         T       S16HHL5       0.20606       -0.63585       0.39143       0.49364         U       S16HHL10       0.16186       -0.59375       0.26251       0.59359         V       S16HHL20       0.40969       -0.53004       0.51667       0.45267         W       S16HHL20       0.52474       -0.55385       0.20058       0.40900         Y       S16HHL35       0.92634       -0.18413       0.12076       0.08592         Z       S16HHL40       0.91331       -0.05574       0.28906       0.01084         Z       S16HVL5       0.88377       -0.00185       0.28883       -0.09465         E       S16HVL5       0.25246       -0.64219       0.42993       0.16055         C       S16HVL10       0.31584       -0.69558       0.39907       0.11120         D       S16HVL20       0.85483       -0.31668       0.11764       0.05988         E       S16HVL25       0.91099       0.06400       0.05477       -0.02385         B       S16HVL45 </th <th>P</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | P                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |            |           |          |                                       |
| \$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\sum_{1}}\$\frac{\sum_{1}}{\ |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |            |           |          |                                       |
| ## S16HHL5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ` R                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |            |           |          |                                       |
| U \$16HHL10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 5_                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |            |           |          |                                       |
| V       \$16HHL15       0.40969       -0.53004       0.51657       0.45267         IN       \$16HHL20       0.52474       -0.55385       0.20058       0.40900         ✓       \$16HHL25       0.68245       -0.19927       0.15413       0.29050         ✓       \$16HHL35       0.92634       -0.18413       0.12076       0.08592         Z       \$16HHL40       0.91331       -0.05574       0.28830       -0.01084         Z       \$16HHL45       0.88377       -0.00185       0.28883       -0.09465         E       \$16HVL5       0.25246       -0.69558       0.39907       0.11120         Ø       \$16HVL15       0.69372       -0.39092       0.35374       0.15610         E       \$16HVL20       0.85483       -0.31668       0.11764       0.05988         Ø       \$16HVL25       0.91099       0.06400       0.05477       -0.02385         Ø       \$16HVL45       0.88251       -0.0213       -0.00180       -0.18516         Ø       \$475HL5       0.88251       -0.02013       -0.0180       -0.18516         Ø       \$475HL5       0.22967       0.26906       0.75180       0.28603         M       \$475HL2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | T                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |            |           |          |                                       |
| S16HHL20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | U                      | \$16HHL 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |            |           |          |                                       |
| Y       \$16HHL25       0.68245       -0.19927       0.15413       0.29050         Y       \$16HHL35       0.92634       -0.18413       0.12076       0.08592         Z       \$16HHL40       0.91331       -0.05574       0.28906       0.01084         Z       \$16HHL45       0.88377       -0.00185       0.28883       -0.09465         E       \$16HVL5       0.25246       -0.64219       0.42993       0.16055         C       \$16HVL10       C.31584       -0.69558       0.39907       0.11120         D       \$16HVL15       0.69372       -0.39092       0.35374       0.15610         E       \$16HVL20       0.85483       -0.31668       0.11764       0.05988         E       \$16HVL25       0.91099       0.06400       0.05477       -0.02385         B       \$16HVL35       0.91648       0.04972       0.00090       -0.17320         F       \$16HVL45       0.88251       -0.02013       -0.00180       -0.18516         B       \$475HL5       0.32352       0.24354       -0.17779       0.75762         E       \$475HL10       -0.08242       0.09367       0.49658       0.74417         4       \$475HL2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | u                      | \$16HHL15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.40969  | -0.53004   |           |          |                                       |
| Y       \$16HHL35       0.92634       -0.18413       0.12076       0.08592         Z       \$16HHL40       0.91331       -0.05574       0.28906       0.01084         Z       \$16HHL45       0.88377       -0.00185       0.28883       -0.09465         B       \$16HVL5       0.25246       -0.69558       0.39907       0.11055         C       \$16HVL10       0.31584       -0.69558       0.39907       0.11120         D       \$16HVL15       0.69372       -0.39092       0.35374       0.15610         E       \$16HVL20       0.85483       -0.31668       0.11764       0.05988         F       \$16HVL25       0.91099       0.06400       0.05477       -0.02385         B       \$16HVL45       0.91099       0.06400       0.05477       -0.02385         B       \$16HVL40       0.89416       0.04689       -0.05277       -0.31457         B       \$16HVL45       0.88251       -0.02013       -0.00180       -0.18516         B       \$475HL5       -0.32352       0.24354       -0.17779       0.75762         E       \$475HL5       -0.32450       0.24364       -0.17779       0.75762         E       \$475H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                        | \$16HHL20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.52474_ |            | 0.20058   | 0.40900  |                                       |
| Z \$16HHL40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1                      | \$16HHL25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          | -0.19927   | 0.15413   |          |                                       |
| Z       S16HHL45       0.88377       -0.00185       0.28883       -0.09465         B       S16HVL5       0.25246       -0.64219       0.42993       0.16055         C       S16HVL10       0.31584       -0.69558       0.39907       0.11120         D       S16HVL15       0.69372       -0.39092       0.35374       0.15610         E       S16HVL20       0.85483       -0.31668       0.11764       0.05988         E       S16HVL25       0.91099       0.06400       0.05477       -0.02385         B       S16HVL35       0.91648       0.04972       0.00090       -0.17320         F       S16HVL40       0.89416       0.04689       -0.05277       -0.31457         B       S16HVL45       0.88251       -0.02013       -0.00180       -0.18516         B       S475HL5       -0.32352       0.24354       -0.17779       0.75762         E       S475HL10       -0.08242       0.09367       0.49658       0.74417         L       S475HL25       0.54887       0.33915       0.52128       -0.35000         D       S475HL35       0.42508       0.42709       0.44970       -0.53486         P       S475HL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | $\mathcal{F}^{\prime}$ | \$16HHL35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.92634  | -0.18413   |           |          |                                       |
| B \$16HVL5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                        | S16HHL40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.91331  | 0.05574_   |           |          |                                       |
| C \$16HVL10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 7                      | \$16HHL45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          | -0.00185   | 0.28883   | -0.09465 |                                       |
| D       \$16HVL15       0.69372       -0.39092       0.35374       0.15610         E       \$16HVL20       0.85483       -0.31668       0.11764       0.05988         E       \$16HVL25       0.91099       0.06400       0.05477       -0.02385         B       \$16HVL35       0.91648       0.04972       0.00090       -0.17320         F       \$16HVL40       0.89416       0.04689       -0.05277       -0.31457         B       \$16HVL45       0.88251       -0.02013       -0.00180       -0.18516         B       \$475HL5       -0.32352       0.24354       -0.17779       0.75762         E       \$475HL10       -0.08242       0.09367       0.49658       0.74417         C       \$475HL15       0.27967       0.26906       0.75180       0.28603         M       \$475HL20       0.52558       0.34719       0.65708       -0.16889         M       \$475HL25       0.54887       0.33915       0.52128       -0.35000         D       \$475HL40       0.34352       0.40262       0.43884       -0.64850         P       \$475HL45       0.34336       0.40735       0.56761       -0.51990         P       \$475VL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | B                      | \$16HVL5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          | -0.64219   |           |          |                                       |
| E \$16HVL20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | C                      | S16HVL10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | C.31584_ | 0.69558_   | <u> </u>  |          | · · · · · · · · · · · · · · · · · · · |
| S16HVL25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | D                      | S16HVL15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.69372  | -0.39092   | 0.35374   | 0.15610  |                                       |
| ## \$16HVL35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Ē                      | \$16HVL 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.85483  | -0.31668   | 0.11764   |          |                                       |
| # \$16HVL35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | FE                     | S16HVL25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.91099  | 0.06400_   |           |          |                                       |
| F       \$16HVL40       0.89416       0.04689       -0.05277       -0.31457         B       \$16HVL45       0.88251       -0.02013       -0.00180       -0.18516         B       \$475HL5       -0.32352       0.24354       -0.17779       0.75762         E       \$475HL10       -0.08242       0.09367       0.49658       0.74417         L       \$475HL15       0.27967       0.26906       0.75180       0.28603         M       \$475HL20       0.52558       0.34719       0.65708       -0.16889         M       \$475HL25       0.54887       0.33915       0.52128       -0.35000         O       \$475HL35       0.42508       0.42709       0.44970       -0.53486         P       \$475HL40       0.34336       0.40735       0.56761       -0.51990         R       \$475HL45       0.34336       0.40735       0.32533       0.06902         S       \$475VL10       0.38963       -0.38787       0.47508       0.22498         T       \$475VL15       0.65056       -0.30023       0.52123       0.12370                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | i p                    | \$16HVL35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.91648  |            |           |          |                                       |
| ## \$475HL5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                        | S16HVL40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.89416  | 0.04689    | -0.05277  | -0.31457 |                                       |
| ## \$475HL10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | $-P_{-}$               | S16HVL45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.88251  | .=0.02013_ | -0.00180  | -0.18516 |                                       |
| ∠ S475HL15       0.27967       0.26906       0.75180       0.28603         M S475HL20       0.52558       0.34719       0.65708       -0.16889         M S475HL25       0.54887       0.33915       0.52128       -0.35000         O S475HL35       0.42508       0.42709       0.44970       -0.53486         R S475HL40       0.34352       0.40262       0.43884       -0.64850         P S475HL45       0.34336       0.40735       0.56761       -0.51990         R S475VL5       0.23253       -0.48085       0.32533       0.06902         S S475VL10       0.38963       -0.38787       0.47508       0.22498         T S475VL15       0.65056       -0.30023       0.52123       0.12370                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | P <sup>-</sup>         | S 4 75HL 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -0.32352 | 0.24354    |           |          |                                       |
| M \$475HL20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | É                      | S475HL 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          | 0.09367    |           |          |                                       |
| M S475HL25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                        | S475HL15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.27967  | 0.26906    | 0.75180   |          |                                       |
| 0 S475HL35       0.42508       0.42709       0.44970       -0.53486         P S475HL40       0.34352       0.40262       0.43884       -0.64850         P S475HL45       0.34336       0.40735       0.56761       -0.51990         R S475VL5       0.23253       -0.48085       0.32533       0.06902         S S475VL10       0.38963       -0.38787       0.47508       0.22498         T S475VL15       0.65056       -0.30023       0.52123       0.12370                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | M                      | S475HL 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.52558  | 0.34719    | 0.65708   | -0.16889 |                                       |
| P S 4 75HL 40       0.34352       0.40262       0.43884       -0.64850         P S 4 75HL 45       0.34336       0.40735       0.56761       -0.51990         R S 4 75VL 5       0.23253       -0.48085       0.32533       0.06902         S 5 4 75VL 10       0.38963       -0.38787       0.47508       0.22498         T S 4 75VL 15       0.65056       -0.30023       0.52123       0.12370                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | M                      | S475HL25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.54887  | 0.33915    | 0.52128   | -0.35000 |                                       |
| P_S475HL45       0.34336       0.40735       0.56761       -0.51990         R_S475VL5       0.23253       -0.48085       0.32533       0.06902         S 475VL10       0.38963       -0.38787       0.47508       0.22498         T S475VL15       0.65056       -0.30023       0.52123       0.12370                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.42508_ | 0.42709    | 0.44970   | -0.53486 |                                       |
| R       S475VL5       0.23253       -0.48085       0.32533       0.06902         S       S475VL10       0.38963       -0.38787       0.47508       0.22498         T       S475VL15       0.65056       -0.30023       0.52123       0.12370                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.34352  |            |           |          |                                       |
| \$ \$475VL10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |            |           |          |                                       |
| TS475VL15 0.65056 -0.30023 0.52123 0.12370                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | R                      | S475VL5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.23253  | -0.48085   |           |          |                                       |
| TS475VL15 0.65056 -0.30023 0.52123 0.12370                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <u> </u>               | S475VL10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |            |           | ,        |                                       |
| #\$475VL20 0_71188 -0_21162 0_45527 0_00574                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1                      | S475VL 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.65056  | -0.30023   |           |          | 1                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <i>i</i>               | S475VL20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.71188  | -0.21162   | 0.45527   | 0.00574  | and American Section                  |
| V S475VL25 0.72666 -0.20160 0.54729 -0.05554                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.72666  | -0.20160   | 0.54729   |          |                                       |
| ₩ S475VL35 0.70083 -0.06822 0.56556 -0.06175                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | نوا                    | S475VL35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |            |           |          |                                       |
| X S475VL40 0.54724 0.03685 0.35359 -0.07679                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ΧΧ                     | S475VL40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.54724_ | 0.03685    | 0.35359_  | 0.07679  |                                       |

### TABLE 40 DALHART. STUB (FACTOR SX) - CONT. -

### . ROTATED FACTOR PATTERN

|             | and the second s | EACTOR1  | FACTOR2  | _FACTOR3 | _FACTOR4 |   |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|----------|----------|---|
| 1           | \$475VL45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.63205  | 0-02476  | 0.63276  | -0.08521 |   |
|             | SNS1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -0.07857 | 0.98097. | 0.05049  | 0.01847  |   |
|             | SNS2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -0.09284 | 0.97760  | 0.08885  | 0.03380  |   |
|             | SNS3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -0.12257 | 0.95857  | 0.04324  | 0.04532  |   |
|             | SNS4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -0.05872 | 0.92269  | 0.32019  | 0.01254  |   |
|             | SN S5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -0.03340 | 0.95222  | 0.21636  | 0.05249  |   |
|             | SNS6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -0.06916 | 0.97591  | 0.03926  | 0.04709  |   |
| Walion Mark | SNS7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.01435  | 0.97365  | -0.01046 | 0.04081  |   |
|             | SNS8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -0.17697 | 0.90989  | -0.08389 | -0.20048 | _ |
| F           | SMFMRHL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -0.07997 | 0.78396  | 0.15127  | -0.51740 | • |
| A           | SMEMRHC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.24498  | 0.88065  | -0.06454 | -0.26083 |   |
| P           | SMFMRVC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.22782  | 0.89375  | -0.05470 | -0.22612 |   |
| F           | SPRT5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -0.17373 | 0.89596  | -0.09517 | -0.10429 |   |

### ORTHOGONAL TRANSFORMATION MATRIX

|   | 1        | 2        | 3       | 4        |
|---|----------|----------|---------|----------|
| 1 | 0.78402  | -0.41933 | 0.43286 | 0.14870  |
| 2 | 0.35293  | 0.82312  | 0.27758 | -0.34766 |
| 3 | -0.47129 | 0.07542  | 0.80806 | 0.34530  |
|   | 0.19658  | 0.37543  | 0.28744 | 0.85895  |

#### VARIANCE EXPLAINED BY EACH FACTOR

FACTOR1 FACTOR2 FACTOR3 FACTOR4
18.742272 15.743236 10.607929 6.339033

ORIGINAL PAGE IS OF POOR QUALITY

# TABLE 40 DAL HART. STUB (FACTOR SX) b. FACTOR PATTERN

|                                                                                                                 |          |          | -        |          |  |
|-----------------------------------------------------------------------------------------------------------------|----------|----------|----------|----------|--|
| The second se | EACTOR1  | FACTOR2  | _EACTOR3 | FACTOR4  |  |
| SFLD02                                                                                                          | 0.73618  | -0.38787 | -0.22377 | 0.37508  |  |
| \$15M02                                                                                                         | 0.70001  |          |          | 0.38916  |  |
| \$1 SM25                                                                                                        | 0.57507  | -0.11857 | -0.49805 | 0.34844  |  |
| \$1SM515                                                                                                        | 0.77850  | 0.32657  | -0.26664 | 0.04742  |  |
| \$1SM1530                                                                                                       | 0.52139  | 0.25384  | 0.67547_ | -0.22394 |  |
| \$1SM3045                                                                                                       | 0.52616  | 0.24384  | 0.67399  | -0.22239 |  |
| \$25M02                                                                                                         | 0.70041  | -0.41233 | -0.23284 | 0.39702  |  |
| \$25M25                                                                                                         |          |          | -0.45730 | 0.35958  |  |
| \$2SM515                                                                                                        | 0.79946  | 0.29631  | -0.21665 | 0.05510  |  |
| \$25M1530                                                                                                       | 0.53196  | 0.23634  | 0.68118  | -0.24776 |  |
| \$25M3045_                                                                                                      | 0.52919  | 0.23949  | 0.67779  | -0.23858 |  |
| \$13VVL5                                                                                                        | 0.16404  | -0.58234 | 0.47429  | -0.05849 |  |
| S13VVL10                                                                                                        | 0.34129  | -0.40764 | 0.67769  | 0.39931  |  |
| S13VVL15                                                                                                        | 0.73549  | -0.03205 | 0.45417  | 0.31626  |  |
| \$1300120                                                                                                       | 0.81789  | 0.08368  | 0.16257  | 0.23062  |  |
| \$13VVL25                                                                                                       | 0.78238  | 0.28401  | 0.08799  | 0.17937  |  |
| S13VVL35_                                                                                                       | 0.64819  | 0.49805  | _0.05651 | -0.09185 |  |
| \$13VVL40                                                                                                       | 0.67001  | 0.46782  | -0.11517 | -0.04280 |  |
| S13VVL45                                                                                                        | 0.54335  | 0.59273  | -0.23079 | -0.03977 |  |
| S16HHL5                                                                                                         | 0.67102  | -0.51362 | 0.34168  | 0.11329  |  |
| S16HHL10                                                                                                        | 0.57777  | -0.56510 | 0.29603  | 0.24331  |  |
| SI 6HHL 15                                                                                                      | 0.83438  | -0.30568 | 0.34068  | 0.12188  |  |
| \$16HHL20                                                                                                       | 0.79130_ |          | 0.01424  | 0.18887  |  |
| \$16HHL25                                                                                                       | 0.72853  | 0.01862  | -0.11180 | 0.26456  |  |
| \$16HHL35                                                                                                       | 0.86852  | 0.17903  | -0.32321 | 0.15205  |  |
| \$16HHL 40.                                                                                                     |          | 0.35292  |          | 0.08483  |  |
| \$16HHL45                                                                                                       | 0.80461  | 0.42346  | -0.21594 | 0.00872  |  |
| S16HVL5                                                                                                         | 0.67720  | -0.37597 | 0.23544  | -0.17715 |  |
| S16HVL10                                                                                                        |          |          | 0.15956  | -0.21825 |  |
| S16HVL15                                                                                                        | 0.88415  | -0.03302 | -0.01667 | 0.02201  |  |
| \$16HVL20                                                                                                       | 0.86282  | 0.05286  | -0.31102 | 0.06677  |  |
| \$16HVL25.                                                                                                      |          | 0.39769  | 0.38849  | 0.16688  |  |
| \$16HVL35                                                                                                       | 0.67232  | 0.42485  | -0.48725 | 0.04979  |  |
| \$16HVL 40                                                                                                      | 0.61176  | 0.44889  | -0.56913 | -0.06166 |  |
| \$16HVL45                                                                                                       | 0-67203  | 0.35876  | -0-48283 | 0.00740  |  |
| \$475HL5                                                                                                        | -0.32007 | -0.22646 | 0.28878  | 0.72969  |  |
| \$475HL10                                                                                                       | 0.22171  | -0.07287 | 0.70414  | 0.51543  |  |
| \$475HL.L5                                                                                                      | 0.47440  | 0.42941  | 0-59476  | 0-18558  |  |
| \$475HL20                                                                                                       | 0.52579  | 0.71238  | 0.25113  | -0-10027 |  |
| \$475HL25                                                                                                       | 0.46170  | 0.73925  | 0.06727  | -0.21524 |  |
| \$475HL35                                                                                                       | 0.26930  | 0.81234  | 0.01057  | 0-34477  |  |
| \$475HL 40                                                                                                      | 0.19401  | 0.79991  | -0.00085 | -0.46448 |  |
| \$475HL 45                                                                                                      | 0.26676  | 0.79478  | 0.14804  | -0.38928 |  |
| S475VL5                                                                                                         | 0.53502  | -0-24742 | 0-14087  |          |  |
| \$475VL10                                                                                                       | 0.70722  | -0.12810 | 0.24870  | -0.01234 |  |
| \$475VL15                                                                                                       | 0.87996  | 0.08415  | 0.13465  | -0.02840 |  |
| S475VL20                                                                                                        | 0.84478  | 0.20143  | 0-01841- | 0-06544  |  |
| \$475VL25                                                                                                       | 0.88289  | 0.26175  | 0.06540  | -0.13786 |  |
| \$475VL35                                                                                                       | 0.81370  | 0.36965  | 0.10025  | -0.10344 |  |
| S475VL40                                                                                                        | 0.55522- | 0.34832  |          | 0-04618  |  |
|                                                                                                                 |          |          |          |          |  |

## TABLE 40 DALHART. STUB (FACTORSX) - CONT. -

| <del>andere series e</del> et propie (ontakin settes) (222 | FACTOR   | FACTOR2 | FACTOR3  | FACTOR4  |
|------------------------------------------------------------|----------|---------|----------|----------|
| \$475VL45                                                  | 0.74638  | 0.44872 | 0.18588  | -0.12152 |
| SNSL                                                       | -0.44835 | 0.78732 | 0.15819  | 0.35419  |
| SNS2                                                       | -0.43924 | 0.78482 | 0.20095  | 0.35226  |
| SNS3                                                       | -0.47260 | 0.74201 | 0.18066  | 0.36229  |
| SNS4                                                       | -0.29248 | 0.82328 | 0.36033  | 0.25360  |
| SNS5                                                       | -0.32402 | 0.81381 | 0.28051  | 0.33383  |
| SNS6                                                       | -0.43945 | 0.77341 | 0.15418  | 0.38196  |
| SNS7                                                       | -0.39549 | 0.78941 | 0.07231  | 0.40642  |
| SNS8                                                       | -0.58641 | 0.73290 | 0.01501  | 0.15873  |
| SMFMRHL                                                    | -0.40290 | 0.83893 | 0.04039  | -0.20929 |
| SMEMRHC                                                    |          |         | -0.19125 | 0.17329  |
| SMEMRVC                                                    | -0.25346 | 0.87950 | -0.16225 | 0.20183  |
| SPRT5                                                      | -0.56861 | 0-68601 | 0.03654  | 0.24000  |
|                                                            |          |         |          |          |

ORIGINAL PAGE IS OF POOR QUALITY

## TABLE 40 DALHART. STUB (FACTORSX)

C. EIGENVECTORS

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | •                                                                                                               | ~        | •                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| THE RESIDENCE OF THE PARTY OF T | The state of the s | Activities of the second se |          | <del>andred and artificial and all and and and and and and and and and and</del> | and the state of t | 11. 11. 1 · · 2 me/k/s ·              |
| V!                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | SFL002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.14860                                                                                                         | -0.09713 | -0.08583                                                                         | 0.18423                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                       |
| oras ca. e.u. encenta sincini                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | S15402                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.14130                                                                                                         |          | 0.10121                                                                          | 0.19114                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | \$15M25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>C.1</b> 1608                                                                                                 | -0.02969 | -0.19103                                                                         | 0.17114                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | \$1SM515                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.15714                                                                                                         | 0.08178  | -0.10227                                                                         | 0.02329                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ¢                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | S1SM1530                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.10525                                                                                                         | 0.06356  | 0.25908                                                                          | -0-10999                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | . (1.7                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | S1SM3045                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.10621                                                                                                         | 0.06106  | 0.25852                                                                          | -0.10923                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | S2SM02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.14138                                                                                                         | -0.10325 | -0.08931                                                                         | 0.19500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | \$2SM25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | . 0.12441                                                                                                       | -0.03868 | 0.17540.                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |
| - \$2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | \$2\$M515                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.16137                                                                                                         | 0.07420  | -0.08310                                                                         | 0.02706                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | \$2\$M1530                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.10738                                                                                                         | 0.05918  | 0.26128                                                                          | -0.12169                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | S2SM3045                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.10682                                                                                                         | 0.05997  | 0_25998                                                                          | -0.11718                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                       |
| rain erin ga, yang a mindidikikin <del>ali bayan dan basa dan balan</del>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | \$13VVL5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.03311                                                                                                         | -0.14583 | 0.18192                                                                          | -0.02873                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | \$13VVL10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.06889                                                                                                         | -0.10208 | 0.25994                                                                          | 0.19612                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | \$13VVL15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.14846                                                                                                         | 0.00802_ | 0.17420_                                                                         | 0.15533                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                 |          |                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | · · · · · · · · · · · · · · · · · · · |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | \$13VVL20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.16510                                                                                                         | 0.02095  | 0.06236                                                                          | 0.11327                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | \$13VVL 25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0-15793                                                                                                         | 0.07112  | 0.03375                                                                          | 0.08810                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                       |
| A RESIDENT WATER OF THE PROPERTY OF THE PROPER | \$13VYL35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.13084_                                                                                                        | 0.12472  | 0.02168                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | A A HARRY                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | \$13VVL40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.13524                                                                                                         | 0.11715  | -0.04417                                                                         | -0.02102                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                       |
| ı                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | \$13VVL45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.10968                                                                                                         | 0.14843  | -0.08852                                                                         | -0.01953                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                       |
| na sajannyan ya 1914 <del>di danasyona</del> n                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | \$16.HHL5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.13545                                                                                                         | -0.12862 | 0.13106.                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 4                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | S16HHL10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.11663                                                                                                         | -0.14151 | 0.11355                                                                          | 0.11950                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | S16HHL15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.16842                                                                                                         | -0.07655 | 0.13067                                                                          | 0.05986                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                       |
| C C Try and the Control of the Contr | \$16HHL20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.15973                                                                                                         | -0.08945 | 0.00546_                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | #277# 1-197 1 1-144 1-145 19          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | \$16HHL25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.14706                                                                                                         | 0.00466  | -0.04288                                                                         | 0.12994                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | \$16HHL35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.17532                                                                                                         | 0.04483  | -0.12397                                                                         | 0.07468                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                       |
| a distribution of party by the same and a party of the same and the sa | S16HHL40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.17484                                                                                                         | 0.08838  | 0.07568                                                                          | 0-04167                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | · · · · · · · · · · · · · · · · · · · |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | \$16HHL45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.16242                                                                                                         | 0.10604  | -0.08282                                                                         | 0.00428                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | S16HVL 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.13670                                                                                                         | -0.09415 | . 0.09030                                                                        | -0.08701                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                       |
| · · · · · · · · · · · · · · · · · · ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | S16HVL10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.14707                                                                                                         | -0.09740 | 0.06120                                                                          | -0-10719                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | - ++                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | S16HVL15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.17847                                                                                                         | -0.00827 | -0.00640                                                                         | 0.01081                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | \$16HVL20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.17417                                                                                                         | 0.01324  | -0.11929                                                                         | 0.03279                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                       |
| - 12-57-5-41- <del></del>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | _\$16HVL25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.14282                                                                                                         |          | -0-14901                                                                         | 0.08196                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | \$16HVL35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.13571                                                                                                         | 0.10639  | -0.18689                                                                         | 0.02446                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | \$16HVL40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.12349                                                                                                         | 0.11241  | -0.21830                                                                         | -0.03028                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                       |
| Library Manager                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | _\$16HVL45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.13565                                                                                                         | 0.08984  |                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | :                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | \$475HL5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -0.06461                                                                                                        | -0.05671 | 0.11077                                                                          | 0.35839                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | S475HL10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.04475                                                                                                         | -0.01825 | 0.27008                                                                          | 0.25316                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | S475HL15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0-09576_                                                                                                        | 0.10753_ | 0.22813                                                                          | 0.09115                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | S475HL 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.10613                                                                                                         | 0.17839  | 0.09632                                                                          | -0.04925                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | S475HL25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.09320                                                                                                         | 0.18512  | 0.02580                                                                          | -0.10572                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                       |
| $\hat{F} = -\frac{1}{4} \cdot \hat{J} \cdot -\frac{V}{4} \cdot \hat{J} \cdot \hat{J}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | S475HL35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.07320                                                                                                         | 0-20342  | 0.02580<br>0.0405                                                                | -0-16934                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | S475HL 40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.03916                                                                                                         | 0.20031  | -0.00033                                                                         | -0.22813                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                 |          |                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | S475HL45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.05385                                                                                                         | 0.19902  | 0.05678                                                                          | -0.19120                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>-</b>                              |
| and the section that the section of  | S475VL5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.10800                                                                                                         | -0.06196 | 0.05403                                                                          | -0-08303                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ·                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | \$475VL10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.14276                                                                                                         | -0.03208 | 0.09539                                                                          | -0.00606                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                       |
| 4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | \$475VL15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.17762                                                                                                         | 0.02107  | 0.05165                                                                          | -0.01395                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | _\$475VL20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.17052_                                                                                                        | 0-05044  | 0.00706_                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ABOUT O OF STATE                      |
| $\{x,x'_1,x'_2,\dots,x'_{n-1}\}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | S475VL25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.17822                                                                                                         | 0.06554  | 0.02508                                                                          | -0.06771                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | S475VL35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.16425                                                                                                         | 0.09256  | 0.03845                                                                          | -0-05081                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                       |
| (84C)5314447 (MAN) 2 14 14 14 14 14 14 14 14 14 14 14 14 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | S475VL40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.11207                                                                                                         | 0.08722_ | 0.00157                                                                          | 0-02268                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | , and the commence                    |

## TABLE 40 DALHART. STUB (FACTORSX) -CONT. -

### C. EIGENVECTORS

| •         | _        | -       | _        | •        |
|-----------|----------|---------|----------|----------|
| \$475VL45 | 0.15066  | 0.11236 | 0.07130  | -0.05969 |
| _SNS1     |          | 0.19715 | Q. 06068 | 0.17396  |
| SNS2      | -0.08866 | 0.19653 | 0.07708  | 0.17302  |
| SNS3      | -0.09540 | 0.18581 | 0.06929  | 0.17794  |
| SNS4      | -0.05904 | 0-20616 | 0-13821  | 0.12456  |
| SNS5      | -0.06540 | 0.20379 | 0.10759  | 0.16396  |
| SNS6      | -0.08871 | 0.19367 | 0.05914  | 0.18760  |
| _SNS7     | -0.07983 | 0-19768 | 0.02774  | 0.19962  |
| SNS8      | -0.11837 | 0.18353 | 0.00576  | 0.07796  |
| SMFMRHL   | -0.08133 | 0.21008 | 0.01549  | -0.10280 |
| SMEMRHC   | -0-04924 | 0.22139 | 0.07336  | 0.08511  |
| SMFMRVC   | -0.05116 | 0.22024 | -0.06223 | 0.09913  |
| SPRT5     | -0.11478 | 0.17178 | 0.01402  | 0.11788  |

ORIGINAL PAGE IS OF POOR QUALITY,

## FIG 37 DALMART. CORN (FACTOR (X) - VARIABLE TRAJECTORIES a. PLOT OF FACTOR 1 HITH FACTOR 3

FACTORI ORIGINAL PAGE IS OF POOR QUALITY 1.6HV 13.3 V JPG N 1.6HH • 5 note 'oscillatory' .7 1 C15M515 =C CFLD02 =A CISMC2 = 8 CISM25 =CC1SM1530=E C2SM1530=A C1SM3045=C C2SM02 = 5 CZSM25 = C C2SM515 =A C 2 SM3045=K C13VVL5 =L C13VVL10=L C13 vVL15=N C13VVL20=C C13VVL25=P C13VVL35=C C13VVL40=R C13VVL45=S CI6HHL5 = 1 C16HHL15=T C16HFL25=X C16HHL1C=L C16HFL20=# C16HHL35=Y C16HVL5 =B C16HVL10=C C16HVL15=D C16HHL40= Z C16HHL45=A C16HVL35=8 C16HVL2C=B C16HVL25=C C16HVL40=C C16HVL45=A C4HVL20 =L C4HVL25 =N C4HVL10 =K C4HVL15 =L C4HVL5 ≍ A C4HVL35 =C C4HVL40 =P C4HVL45 =C C475+L5 =R C475HL10=S C475HL20=U C475+L25=T C475HL35=W C475+L40=X C475HL15=T C 475HL45=Y C475VL5 = Z C475VL10=A C475VL15=E C475VL20=C C475VL25=D C475VL35= P C475VL40=C C475VL45=B CMFMRHL =C CMFMRHC =A CMFMRVC =A CPRT5

#### FIG 37 DALHART. CORN (FACTORCX) ORIGINAL PAGE IS b. PLOT OF FACTOR2 WITH FACTOR4 OF POOR QUALITY FACTGR2 Q OP R . 8 I C FG .5 u X .4 8 AG FEC .2 G Z P ΚI E B Q 0 Ν •1 X D K . 3 1 R K -6 .7 .8 1 CFLD02 = A C1SM02 = 8 CISM25 =8 C1SM515 =D C1SM1530=E C1 SM3045=Z C2SM02 =GC2SM25 =A C2SM515 = I C2SM1530=D C13VVL5 = L C13VVL10=M C13VVL15=N C13VVL20=0 C25M3045=K C16HHL5 =T C13VVL25=P C13VVL35=C C13VVL40=R C13 VVL45=C C16HHL10=U C16HHL15=V C16FFL20=W C16++L25=X C 16HHL 35= h C16HVL15=D C16HHL45=A C16HVL5 =8 C16HVL10=B C16HHL4C=Z C16HVL20=E C16HVL25=Z C16+VL35=G C16HVL40=A C16HVL45=I C4HVL15 =L C4HVL20 =M C4HVL25 =N C4HVL10 =K C4HVL5 = 0C4HVL35 =C C4HVL40 =F C4HVL45 =Q C475HL5 =R C475HL10=Q C475HL 15=T C475HL2C=U C475HL25=V C475HL35=W C475+L40=X C475HL45=h C475VL5 = Z C475VL10=A C475VL 15=B C475VL2C=B C475VL40=Z C475VL45=G CMFMRHL =A C475VL25=0 C475VL35=E

CPFPRHC = I

CMFMRVC =C

CPRT5

=K

## TABLE 41 DALHART. CORN (FACTOR CX)

| ·                                                                                                                  | FACTOR1                    | FACTOR2  | FACTORS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | FACTOR4  |              |
|--------------------------------------------------------------------------------------------------------------------|----------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------|
| CFLD02                                                                                                             | 0.19521                    | C.31049  | 0.87229                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -0.00557 |              |
| B CISMC2                                                                                                           | 0.18272                    | 0.33913  | 0.85461                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | C.03011  |              |
| C C1SM25                                                                                                           | 0.14788                    | 0.33159  | C.88C90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.01491  |              |
| D C 1 SM 5 1 5                                                                                                     | 0.18609                    | 0.25335  | C.90282                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -0.08899 |              |
| 2 C1SM1530                                                                                                         | 0.10238                    | 0.24313  | C.88340                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -C.11037 |              |
| C C15M3045                                                                                                         | 0.11168                    | 0.22686  | 0.84277                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -C-16428 |              |
| C2SMO2                                                                                                             | 0.21361                    | 0.31555  | C.86372                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.01294  |              |
| C2SM25                                                                                                             | 0.17349                    | 0.29121  | 0.88235                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -0.01913 |              |
| C2SM515                                                                                                            | 0.22126                    | 0.22124  | 0.89805                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -C.10290 | •            |
| C2SM1530                                                                                                           | 0.18356                    | 0.23603  | 0.87041                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -0.09194 |              |
| C2SM3045                                                                                                           | 0.17136                    | 0.18499  | 0.82406                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -C.15462 | ············ |
| ► C13VVL5                                                                                                          | 0.10887                    | 0.36762  | 0.24779                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.63640  |              |
| ← C13VVL10                                                                                                         | 0.36307                    | 0.42719  | C.18856                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.64266  |              |
| ₩ C13VVL15                                                                                                         | 0.35446                    | 0.65252  | 0.33457                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | C.35807  |              |
| O C13VVL20                                                                                                         | -C.15116                   | 0.84737  | 0.11805                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | C-22977  |              |
| P C13VVL25                                                                                                         | 0.07955                    | 0.83011  | 0.11351                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | G-24076  |              |
| Q C13VVL35                                                                                                         | -0.01724                   | 0.83739  | 0.17463                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | C.01216  |              |
| R C13VVL40                                                                                                         | -0.03250                   | 0.87003  | 0.02100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | C.11086  |              |
| S C13VVL45                                                                                                         | -0.02413                   | 0.87422  | -C.07473                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.00455  |              |
| T C16HHL5                                                                                                          | 0.40574                    | -0.04913 | 0.65455                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.20982  |              |
| U CIEHHLIO                                                                                                         | -0.45247                   | C.52C89  | 0.01382                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.40415  |              |
| <b>ア C16HHL15</b>                                                                                                  | 0.25799                    | 0.31709  | 0.64580                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.39865  |              |
| W C16HHL20                                                                                                         | -C.29326                   | 0.62903  | 0.16614                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.41720  |              |
| X C16FFL25                                                                                                         | 0.10075                    | 0.52439  | 0.44206                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.55997  |              |
| 7 C16HHL35                                                                                                         | -0.06493                   | 0.55767  | 0.29619                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.51390  |              |
| Z C16H+L40                                                                                                         | -0.14247                   | 0.56493  | 0.42233                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.34792  |              |
| A C16HHL45                                                                                                         | -0.20567                   | 0.47185  | 0.39715                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.43255  |              |
| B CIGHVL5                                                                                                          | 0.78695                    | -0.04072 | 0.18210                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.13671  | :            |
| C CIEHVL10                                                                                                         | -0.00944                   | C.67413  | 0.15212                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.26056  |              |
| D C16HVL15                                                                                                         | 0.23259                    | 0.42647  | 0.62983                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | C.23664  |              |
| B CIEHVL20                                                                                                         | -0.08943                   | 0.71367  | 0.29026                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.28138  |              |
| C C16HVL25                                                                                                         | 0.11235                    | 0.59956  | 0.55063                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | C. 18841 |              |
| B C16HVL35                                                                                                         | 0.21514                    | 0.61814  | 0.43287                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.21560  | •            |
| C C16HVL40                                                                                                         | -0.06188                   | 0.68916  | 0.45355                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | C. 10544 |              |
| A C16HVL45                                                                                                         | -0.00276                   | 0.63335  | 0.44568                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.16907  |              |
| A C4HVL5                                                                                                           | 0.30866                    | -0.22181 | 0.67478                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | G. 14950 |              |
| N C4HVL10                                                                                                          | 0.48493                    | -0.23845 | 0.70612                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.23703  |              |
| A C4HVL15                                                                                                          | 0.42627                    | -0.16026 | 0.80525                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | C. 12529 |              |
| 5 C4HVL20<br>N C4HVL25                                                                                             | C.43036                    | -0.16592 | 0.80473                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.18089  |              |
| N C4HVL25                                                                                                          | 0.32102                    | -0.09501 | 0.81505                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | C.17575  |              |
| O C4HVL35                                                                                                          | 0.32359                    | -0.00680 | 0.74257                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.21682  |              |
| P C4+VL40                                                                                                          | 0.28216                    | C.21787  | 0.71591                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.20335  |              |
| G C4HVL45                                                                                                          | 0.17946                    | 0.16711  | 0.65226                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.23539  | <u> </u>     |
| R C475FL5                                                                                                          | 0.74187                    | -0.38706 | 0.38685                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -C.14095 |              |
| \$ C475HL10                                                                                                        | 0.74921                    | -0.35685 | 0.30655                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -0.14169 |              |
| T C475HL15                                                                                                         | 0.80544                    | -0.34830 | 0.29189                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -G.20431 |              |
| # C475HL20                                                                                                         | 0.78495                    | -0.28391 | 0.32259                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -0.29598 |              |
| 7 C475HL25                                                                                                         | 0.78695                    | -0.23362 | C.26799                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -C.39142 |              |
| W C475HL35                                                                                                         | 0.71245                    | -0.22753 | 0.26818                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -0.50639 |              |
| X C475HL40                                                                                                         | 0.78539                    | -0.21959 | 0.22538                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -0.43903 |              |
| man grame men med Miller T - 「 *** min de s che s chade s s sent cross co. eM executa ( Meta de Arib de Arib )<br> | Company and Author Company |          | The second secon |          |              |

## TABLE 41 DOLHART. CORN (FACTORCX) - CONT. -

| ne mandalan di sigle e desc. Ked. di dinivide similia mendia del | FACTORI  | ,FACTOR2 | FACTOR3  | FACTOR4   |
|------------------------------------------------------------------|----------|----------|----------|-----------|
| Y C475HL45                                                       | 0.69112  | -0.23662 | 0.25637  | -C.52555  |
| C475VL5                                                          | 0.89063  | 0.19421  | 0.13065  | C.15980   |
| # C475VL10                                                       | 0.92623  | 0.05353  | 0.16884  | 0.16293   |
| # C475VL15                                                       | 0.91941  | 0.13139  | 0.25647  | C.16985   |
| € C475VL20                                                       | C-9C646  | 0.15547  | 0.22699  | 0.17839   |
| P C475VL25                                                       | 0.92603  | 0.09614  | 0.27403  | C.10007   |
| B C475VL35                                                       | C. 90815 | C.16543  | 0.23630  | C.11861   |
| C C475VL40                                                       | 0.89330  | 0.17808  | 0.20948  | 0.13702   |
| B C475VL45                                                       | 0.90701  | 0.17552  | 0.23147  | 0.08732   |
| CCMFMRHL                                                         | -0.18220 | -0.13065 | -0.16057 | -C. 92499 |
| A CMFMRHC                                                        | 0.05053  | -0.29183 | 0.08186  | -0.89948  |
| A CMFMRVC                                                        | -0.00323 | -0.27313 | 0.06953  | -C. 91252 |
| KCPRT5                                                           | 0.11233  | -0.53223 | 0.03414  | -0.63651  |

### CRTHGGENAL TRANSFORMATION MATRIX

|   | 1        | 2        | 3        | 4        |
|---|----------|----------|----------|----------|
| 1 | 0.52196  | 0.33659  | 0.76004  | 0.19131  |
| 2 | 0.57537  | -C.67880 | 0.02021  | -0.45581 |
| 3 | -0.5963C | -C.14440 | 0.60207  | -0.51097 |
| 4 | 0.20232  | C.63646  | -0.2438C | -0.70324 |

### VARIANCE EXPLAINED BY EACH FACTOR

FACTOR1 FACTOR2 FACTOR3 FACTOR4 14.268035 11.429651 17.065988 7.345994

# YABLE 41 DALHART. CORN (FACTOR CX)

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | FACTORL            | EACTCR2_             | EACTOR2.             | FACTOR4            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------------|----------------------|--------------------|
| CFLD02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.87040            | -0.07598             | 0.36440              | 0.02917            |
| <u>C ISMOZ</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.86462            | -0.12152             | 0.34123              | 0.02328            |
| C1SM25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.86117            | -0.12899             | 0.38668              | 0.01572            |
| C 1SM 5 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.85156            | -0.CC61C             | C.44148              | 0.04137            |
| C1SM1530                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.78558            | 0.03797_             | 0.49211              | 0.03770            |
| C1SM 3045                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.74377            | C.CC218              | 0.49200              | 0.07704            |
| C2SM02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.87665            | -0.07973             | 0.34047              | 0.02438            |
| ESMERICA MARKET | 0.85554            | <u>-0.</u> C7130,    | 0.39551              | C.01878            |
| C2SM515                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.85283            | 0.C4218              | 0.42938              | 0.03900            |
| C2SM1530                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.81921            | 0.00489              | 0.42748              | 0.03981            |
| C2SM3C45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.74845            | O.C6015_             | C.44625              | C. 06024           |
| C13VVL5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.49064            | -0.47197             | -0.29400             | -0.25195           |
| C13VVL10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.59956            | -0.37020             | -0.49303             | -C-15257           |
| C13VVL15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.72743            | -0-39544             | -0.28711             | 0.15364            |
| C13VVL20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.34000<br>C.45326 | -0.76452<br>-0.62515 | -0.07655<br>-0.22199 | C.31837<br>C.34744 |
| C13VVL25<br>C13VVL35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.40791            | -0.58036             | -0.01171             | C. 47835           |
| C13VVL40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.31305            | -0.65938             | -0.15025             | 0.46408            |
| C13VVL45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.22573            | -0.61090             | -0.15917             | C. 56654           |
| C16HHL5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.73287            | 0.18438              | 0.05203              | -0.25631           |
| C16HFL10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.02698            | -0.79786             | -0.00360             | -0.04761           |
| C16HHL15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.80849            | -0.23546             | -0.01451             | -0.18378           |
| C16HFL20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.26474            | -0.78253             | -0.02511             | 0.00712            |
| C16HHL25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.67220            | -0.54429             | -0.15577             | -0.14744           |
| C16HFL35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.47725            | -0.64417             | -0.126C8             | -C.09181           |
| C16HHL40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.50333            | -0.61550             | 0.07988              | -0.01691           |
| C16H+L45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.43607            | -0.62777             | 0.07260              | -0.14231           |
| C16HVL5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.56161            | 0.42180              | -0.42359             | -0.00724           |
| C16HVL10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.38744            | -0.57872             | -0.13327             | 0.20682            |
| C16HVL15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.78892            | -0.25080             | 0.05801              | -0.00148           |
| C16HVL20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.46798            | -0.65829             | -0.01875             | C.16748            |
| C16HVL25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.71500            | _0.41709             | 0.08167              | 0.13758            |
| C16HVL35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.69060            | -0.38533             | -0.06709             | C.17980            |
| C16HVL40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.56456            | -0.49956             | 0.15657              | C.24138<br>C.17499 |
| C16HVL45<br>C4HVL5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.58282<br>0.62791 | 0.27365              | 0.09213<br>C.17786   | -0.34837           |
| C4HVL 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.75488            | 0.24710              | 0.04529              | -0.39250           |
| C4HVL15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.80454            | 0.31321              | 0.18976              | -0.30019           |
| C4HVL20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.81501            | C-29405              | 0.15542              | -C.34194           |
| C4HVL25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.78868            | 0.18556              | 0.22322              | -0.31782           |
| C4HVL35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.77248            | 0.10698              | 0.14432              | -C.27237           |
| C4HVL40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.80364            | -0.06376             | 0.12741              | -0.12179           |
| C4HVL45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.69070            | -0.10429             | 0.14129              | -C.18188           |
| C475HL5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.52400            | 0.76165              | -0.08155             | -0.09145           |
| C475FL1C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | C.47683            | 0.74408              | -0.13826             | -0.05063           |
| C475FL15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.48593            | 0.79888              | -0.14586             | 0.01380            |
| C475HL20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.50271            | 0.78579              | -0.08161             | 0.10761            |
| C475HL25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.46092            | 0.79520              | -0.07417             | 0.22045            |
| C475FL35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.40224            | 0.80061              | 0.02824              |                    |
| C475FL40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.42638            | 0.80571              | -0.07418             | C.27196            |

## TABLE 41 DALHART. CORN (FACTORCX) - CONT. -

### FACTOR PATTERN

| Nagyaganan di Serangan da Madaya da Bangan da Septembera | EACTCRL  | FACTCR2 | EACTOR3  | FACTOR4  |
|----------------------------------------------------------|----------|---------|----------|----------|
| C475FL45                                                 | 0.37540  | 0.80300 | 0.04495  | C. 29632 |
| C475VL5                                                  | 0.66011  | 0.31641 | -0.56212 | 0.15957  |
| C475VL10                                                 | C.66C97  | 0.42573 | -0.54164 | C.06572  |
| C475VL15                                                 | 0.75154  | 0.36758 | -0.49959 | 0.08767  |
| C475VL20                                                 | 0.73212  | C.33929 | -C.51745 | C. 10155 |
| C475VL25                                                 | 0.74313  | 0.42747 | -0.45222 | 0.11136  |
| C475VL35                                                 | 0.73199  | 0.36094 | -0.48375 | 0.14801  |
| C475VL40                                                 | 0.71164  | 0.33488 | -0.50228 | C.14665  |
| C475VL45                                                 | C.72513  | 0.36761 | -C.47145 | C.17738  |
| CMFMRHL                                                  | -0.43807 | 0.40223 | 0.50347  | 0.56962  |
| CMFMRFC                                                  | -0.18172 | 0.63882 | C.52C50  | C.437G8  |
| CMFMRVC                                                  | -0.21535 | 0.60089 | 0.54949  | C.45028  |
| CPRT5                                                    | -0-21634 | 0.71673 | 0.35566  | 0.12328  |

# TABLE 41 DALHART. CORN (FACTORCX) C. ELGENVECTORS

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | gynnyngynydynghod. Om 1994 flede erroprodell ett like sydnoxyllikussadd satiriyddia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>.</b>               |                                   | manica a Similari materia (na 🍎 🚶 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------------------------|-----------------------------------|
| •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CFLD02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.17263                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -0.01941               | 0.14881                           | 0.01589                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | C1SMC2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.17152                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -0.03105               | 0.13934                           | 0.01268                           |
| The same accounts the manual accounts.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | C15M25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.17080                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -0.03296               | 0.15791                           | 0.00856                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | C1SM515                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.16889                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -0.C0156               | 0.18029                           | 0.02253                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | C1\$M1530                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.15581                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -0.C0970               | 0.20096                           | 0.02054                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | C1SM3045                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.14751                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | G.CC056                | 0.20091                           | 0.04196                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | C2\$M02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.17387                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -0.02037               | C.13903                           | 0.01328                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | C2SM25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.16968                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -0.C1822               | 0.16151                           | 0.01023                           |
| F recommendation of the control of t | C2SM515                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.16914                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.01078                | 0.17534                           | C.02124                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | C2SM1530                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.16248                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | C.C0125                | 0.17457                           | C-02168                           |
| AAAAANIN MAANAANIN TA MAANAANIN MAANAANIN TITOTOO I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | C2SM3C45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.14844                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.01537                | 0.18223                           | C. C3281                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | C13VVL5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.09731                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -0.12058               | -0.12006                          | -0.13723                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | C13VVL10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.11891                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -0.09458               | -0.20134                          | -C.C8310                          |
| - cor produces are received. Additional and produce and the construction of the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | C13VVL15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.14427                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Q.10103 ;              | -0.11725                          | 0.08368                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | C13VVL20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.06743                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -0.19533               | -0.03208                          | C.17341                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | C13VVL25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>C.</b> ¢8996                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -0.15972               | -0.09065                          | 0.18924                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | C13VVL35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.08090                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.14828                | -0.00478                          | C.26054                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | C13VVL40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.06209                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -0.16847               | -0.06136                          | 0.25277                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | C13VVL45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.04477                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -0.15608               | -0.06500                          | C.30858                           |
| Control Management and the control was a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | C16HHL5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.14535                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.04711                | 0.02125                           | -0.13961                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | C16HFL10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.00535                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -0.20385               | -C.00147                          | =C.G2593                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | C16HHL15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | C. 16C35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -0.C6016               | -0.00593                          | -0.10010                          |
| nesse need wanter the interest parties of the column and the colum | C16HFL20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.05251                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -0.19993               | -0.01189                          | C.CC388                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | C16HHL25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.13332                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -0.13906               | -0.06361                          | -0.08030                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | C16HFL35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.09465                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -C.16458               | -0.05148                          | -C.05001                          |
| 医斯特朗氏征皮膜畸胎检查 医动物性神经炎 無行 化碘酸二十十二次的                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CI6HHL40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.09983                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -0.15725               | 0.03262                           | -0.00921                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | C16HHL45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.08649                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -0.16039               | 0.02965                           | -C.07751                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | C16HVL5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.11138                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.10777                | -0.17298                          | -0.00394                          |
| C. Lake September 2 September  | CT9HALTO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Augusta and the second | -0.05442                          | C.11265                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | C16HVL15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.15647                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -0.06408               | 0.02369                           | -0.00080                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | C16HVL20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.09282                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -0.16819               | -0.00766                          | 0.09122                           |
| order capable indepresentatives with light of the last of reduced \$15.15 km AT 15.15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | C16HVL25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.14181                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -0.10656               | 0.03335                           | 0.07494                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | C16HVL35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.13697                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -0.C9845               | -C.02740                          | 0.09793                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | C16HVL40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.11197                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -0.13855               | 0.06394                           | 0.13147                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | C16HVL45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.11559                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -0.12763               | 0.03762                           |                                   |
| enter de la companya  | C4HVL5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.12453                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.06992                | 0.07263                           | -0.18975                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | C4HVL10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.14972                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 83883.0                | 0.02013                           | -C-21378                          |
| 2.2. mark committees committees committees                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | C4HVL15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.15957                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.08002                | 0.07749                           | -0.16350                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | C4HVL20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0-16164                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.67513                | 0.06510                           | -C.18624                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | C4HVL25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.15642                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.04741                | 0.09115                           | -0.17311                          |
| ng n                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | CAHVL35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | C. 15321                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.C2733<br>-0.01629    | 0.05894                           | -0.14835                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | C4HVL40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0-15939                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                        | 0.05203                           | -0.06634                          |
| . )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | C4HVL45<br>C475HL5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.13699<br>0.10393                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -0.02664               | 0.05770<br>0.03330_               | -0.09907<br>-0.04981              |
| 100 pt 10 | C475HL10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>0.10393</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.19459<br>G.19011     | -0.05646                          | -0.02758                          |
| land of the second of the seco | C475HL15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.09638                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.20410                | -0.06120                          | 0.00751                           |
| *** <b>*</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | C475FL20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.69576                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | C.20076                | -0.03333                          | C-05861                           |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | C475+L25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.09141                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.20317                | -C.03C29                          | C-12007                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | C475HL35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.07171                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.20455                | 0.01153                           | 0.15799                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | C475+L40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.08456                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.20585                | -C.03C29                          | C.14813                           |
| TO Proposition and and proposition or delice the contribution of t | Anna and Company of the Company of t | CONTRACTOR OF THE PROPERTY OF | Mariana                | Carpetical Train William Comments |                                   |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | OF POOR QUALITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | TABLE 41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | DALHA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | et. Corn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | (FACTOR)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | (x) - 000T                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| (Big A good Street A)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2 Martin A. Shartin A. A. Care and Company | · C· [                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | EIGENVECTO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | त्र तक्षार्थाः विश्वभावत्रम् (क्षेत्रव्यः १८००)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | in and the large of the company graph garage file of the large sense on the sense of the contract of the contr |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2_                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | inter Edikeront Bredenstadionininaninininininininininininin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | C475HL45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.07445                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.20516                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.01835                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | G-16140                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| : Sulphinis, igr i i i i i i i i i i i i i i i i i i                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <u>C475</u> VL5<br>C475VL10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.13092<br>0.13109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.07931<br>0.10877                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -0.22955<br>-0.22118                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>0.</b> 08692<br><b>0.</b> 03580                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | bi yake ekile kabupatan mendeli ol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | C475VL15<br>C475VL20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.14905<br>0.14520                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.09391                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -0.20401<br>-0.21131                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.04775<br>C.05531                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | C475VL25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.14739                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.10921                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -0.18467                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.06066                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | संर कल्पान्तरेक्त्रणके इन्हों र ार्थक देखें के अंग्रेस्ट्रेस के                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | C475VL35<br>C475VL40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0-14518<br>0-14114                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.09222<br>0.08556                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -0.19755<br>-0.20511                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.08062<br>0.07988                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | C475VL45<br>CMFMRHL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | C.14382<br>-O.08688                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.09392<br>0.10277                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -0.19252<br>0.20560                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.09661<br>0.31026                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| is from the contract of the co | CMFMRHC<br>CMFMRVC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -0.03604<br>-0.04271                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.16321                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.21271                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.23807                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CPRT5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -0.04291                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.18312                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0-14524                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.06715                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| mer - St. de de Stade (n. 17 Africale Stiffer), Stade (n. 18 Abrillande Pare)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | der Berling i leit in der de der Berlingsbertere bei der bereite der erste bestehe der der der der der der der                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | randominia arandominia y programba de Progra | <mark>tarining sang H<sup>a</sup>rmalana</mark> n perhitikangangan piralamah sand                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Account to the transport of the transpor | mercia garrya teland libri. Angli i jiri i i i i i i i i i i i i i i i i                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | e e es general de la composition de la                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | POR CONTRACTOR OF THE CONTRACT |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | vertice of the second s |
| er under de ministeriore en entre versament vergen en entre desprésaments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | (f. nr. 1986) saits (1976) sait (nr. 1975) saits (1976) nr. 1976) nr. 1976) nr. 1976) nr. 1976) nr. 1976) nr. 1976)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | gar en de principales au man en addition de la millio , de ref                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | कारत है के प्रतिकार कर कर का उन्हें की कर कर है की की कर कारत                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | and the state of t | and the suppose of the second | ا الله الله الله الله الله الله الله ال                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| renny se ganneg genega; daneen dekananga; gas gags, shinnad inskrines, de insamusis.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | the beautiful and the second final policy and the second section of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <del>nterposina (qu. 30 may 1968 1968 (Strong) di Bildin ann baile à de</del> . Alcis e                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | and the second section of the second second section is a second s | ्रे<br>। शोर्गाच्या सम्बन्धानेक विशेषक विशेषक व्यवस्थान व्यवस्थान व्यवस्थान । व्यवस्थान । व्यवस्थान । व्यवस्थान ।                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | # XX War is a result of the second                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 6. E inj Applyi <del>ch in A</del> minerior in                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | andra year and anno anno anno anno anno anno anno                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | nadana (19. jejin <sub>-</sub> jej <del>anadan</del> nada nek mengana menada ne                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | . A 19 -copy position -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | en e                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | erek karalykining logung o Kalamain nama aktyainkinan, amu nampujuhinin, kan aktual m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | सरक स्थाप स्थाप पंट करण व पर ग्रिकेट व क                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| AMBO 2 種 - SCRETE ET HES AMB ME - F T T H G H H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | u B. d. 1971 - P. Berlemanhare reconstruct o compare terroring graving quadratic by the be                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | المستعمل المصادية المستعمل الم | and the contraction of the entire of the ent | मानुकार-वार-वार-वार-वार-वार-वार-वार-वार-वार-व                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Patramana 4 - Ali aktorra - arii kiki - iiii - z                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

#### IV. Conclusions

The statistical analyses summarized herein have been examined, as yet, in only a preliminary fashion. Hence, relatively few interpretive \_ comments are contained in this report. The major need for explication of the separate effects of variable cover types, soil moisture profiles, soil textures and the sensor variables - especially the actual response kernels or response weighting functions - is rendered difficult by the convolution of all these variables. The statistical analyses contained within this report are intended as helps toward that end. Such interpretive efforts remain to be done. Finally, the continued review of the analyses efforts of other researchers in this field and the comparative examination of their and our results also remains to be done. For example, Lees (1982) shows a marked difference in his conclusions vis a vis those of Schmugge (1980) on the utility of soil texture for the normalization of the volumetric soil moisture data.

#### **BIBLIOGRAPHY**

- Armstrong, J. Scott, 1967. Derivation of Theory by Means of Factor Analysis or Tom Swift and His Electric Factor Analysis Machine. American Statistician, December.
- Frank, Thomas D., 1979. Categorization of Watershed Landcover Units with Landsat Data. Ph.D. Dissertation, University of Utah, December.
- Hallada, Wayne, A., 1980. Crop Identification Using Principal Component Analysis of Multitemporal Landsat Data. M.A. Thesis, University of California, Santa Barbara.
- Lawley, D.N. and A.E. Maxwell, 1963. Factor Analysis as a Statistical Method. Butterworth and Company, Ltd., London.
- Lees, Robert D., 1982. The Use of Soil Texture and Field Capacity to Normalize Microwave Soil Moisture Measurements: Some Problems. M.A. Thesis, Department of Geography, University of California, Santa Barbara.
- Matzler, Christian, E. Shanda and W. Good, 1982. Towards the Definition of Optimum Sensor Specifications for Microwave Remote Sensing of Snow. <u>IEEE Trans. on Geoscience and Remote Sensing</u>, Vol. GE-20, No. 1.
- Moik, Johannes G., 1980. Digital Processing of Remotely Sensed Images.
  NASA SP-431. National Aeronautics and Space Administration,
  Washington, D.C.
- Van De Geer, John P., 1971. Introduction to Multivariate Analysis for the Social Science, W.H. Freeman and Co., San Francisco, California.